Fig.1

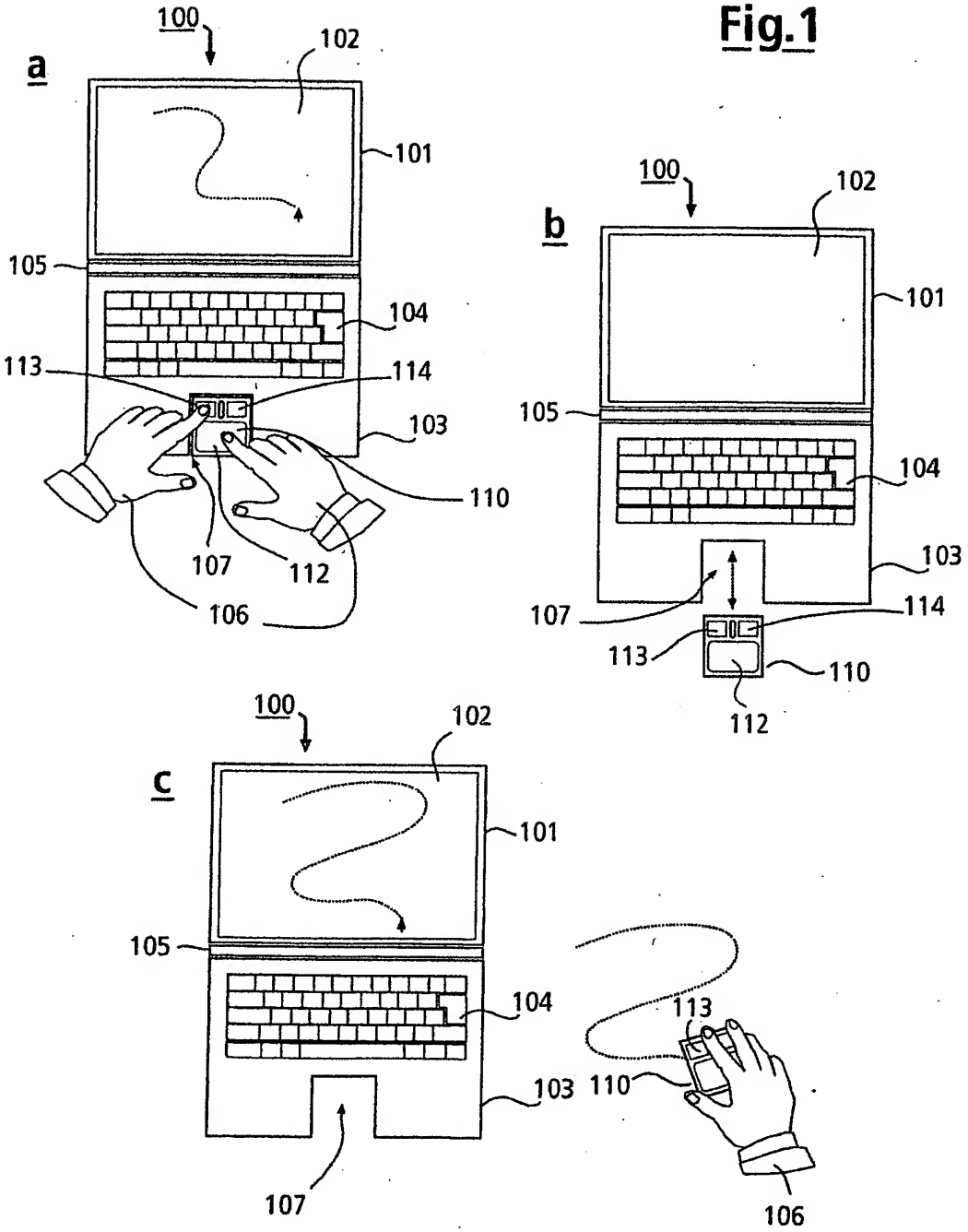
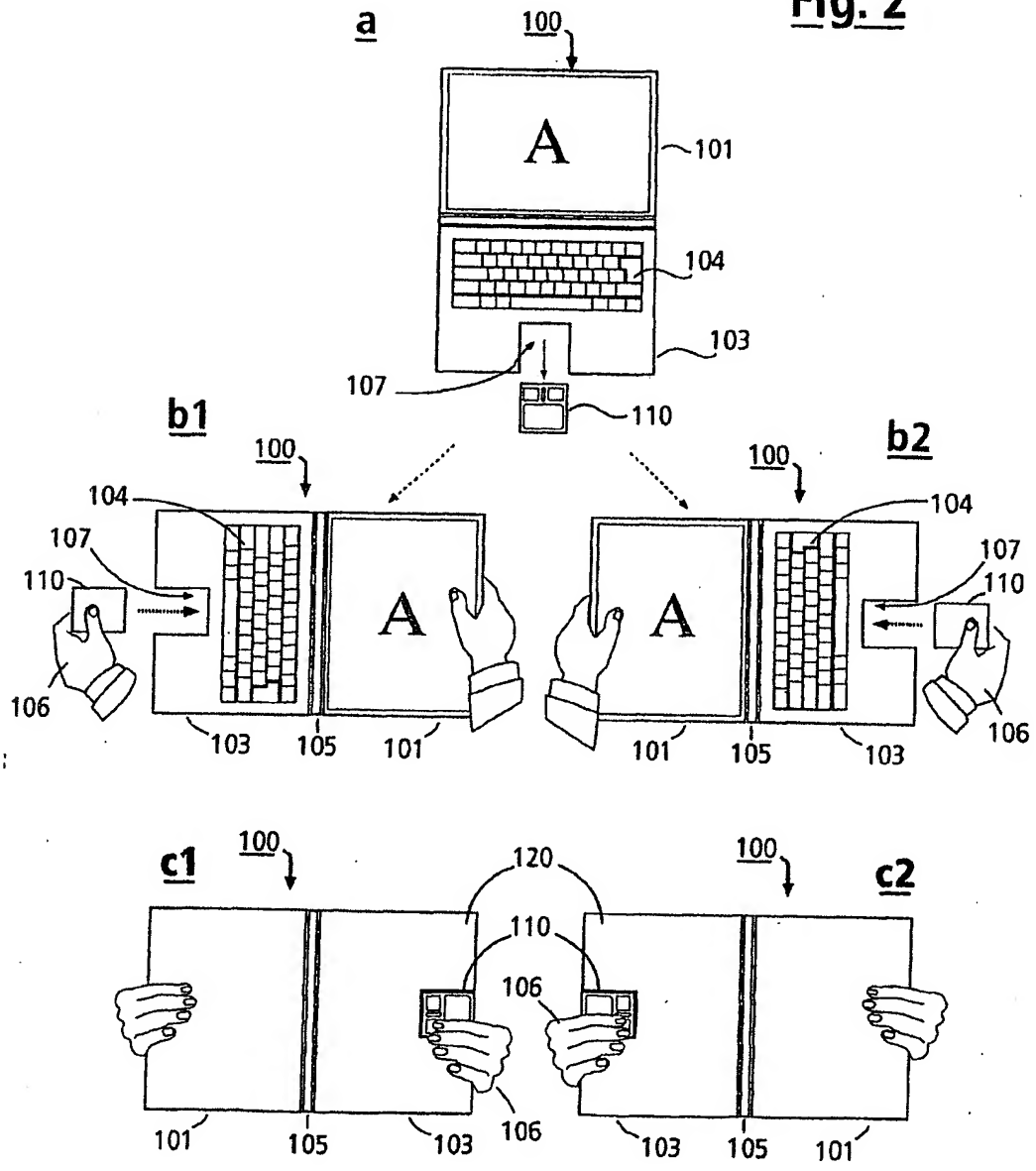

a
100
102
101
105
104
113
114
103
110
107
112
106
b
100
102
101
105
104
103
107
114
113
110
112
c
100
102
101
105
104
103
107
113
110
106

Fig. 2



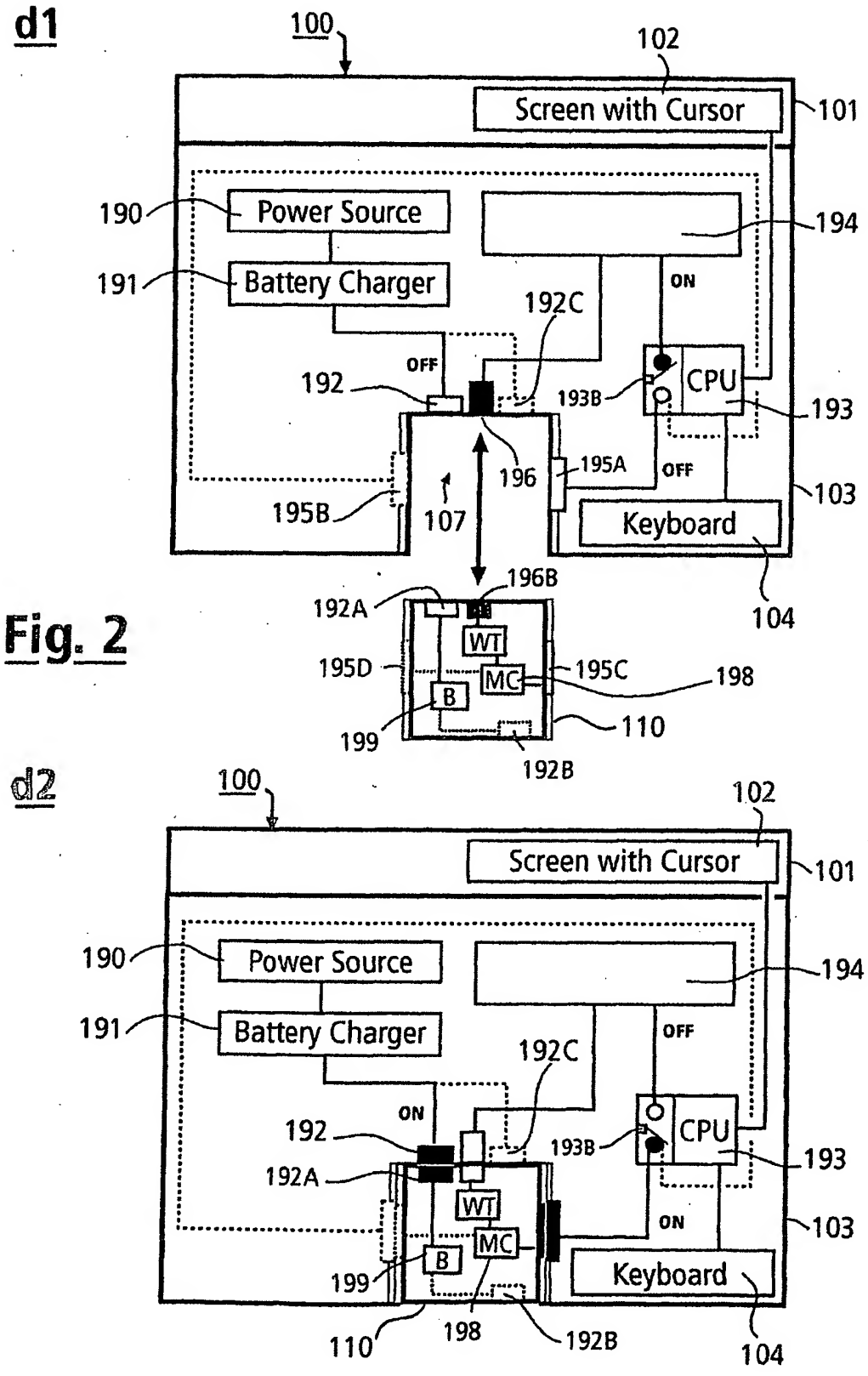

d1
100
102
Screen with Cursor
101
190
Power Source
194
191
Battery Charger
ON
192C
OFF
192
193B
CPU
193
196
195A
OFF
195B
107
103
Keyboard
104
196B
192A
WT
195D
MC
195C
198
B
199
110
192B
d2
100
102
Screen with Cursor
101
190
Power Source
194
191
Battery Charger
OFF
192C
ON
192
193B
CPU
193
192A
WT
ON
MC
103
B
199
Keyboard
110
198
192B
104

Fig. 2

Fig. 2

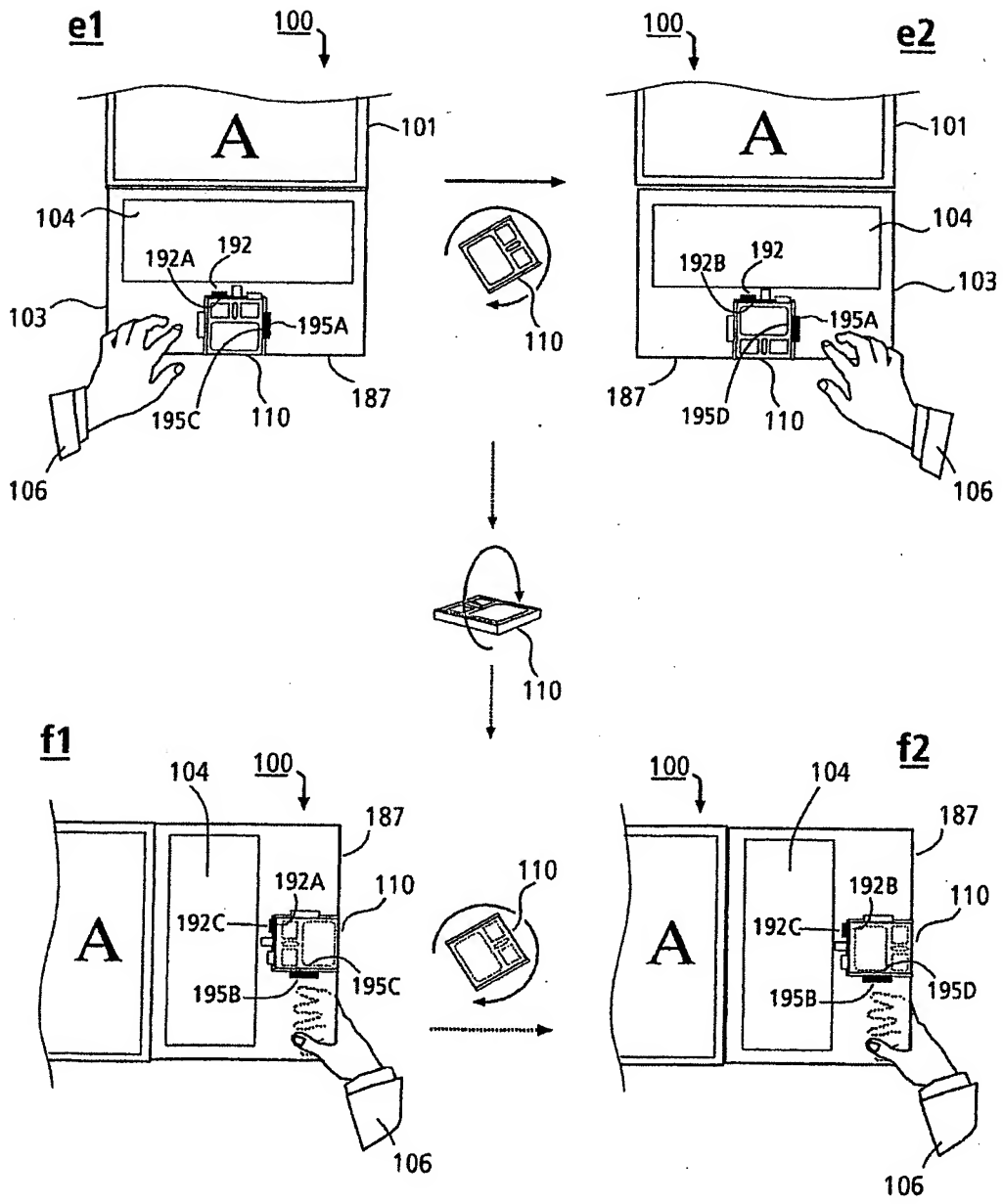

e1
100
A
101
104
192A
192
103
195A
195C
110
187
106
e2
100
A
101
104
192B
192
103
195A
187
195D
110
106
110
f1
104
100
187
A
192A
110
192C
195B
195C
106
110
f2
100
104
187
A
192B
110
192C
195B
195D
106

Fig. 2g1

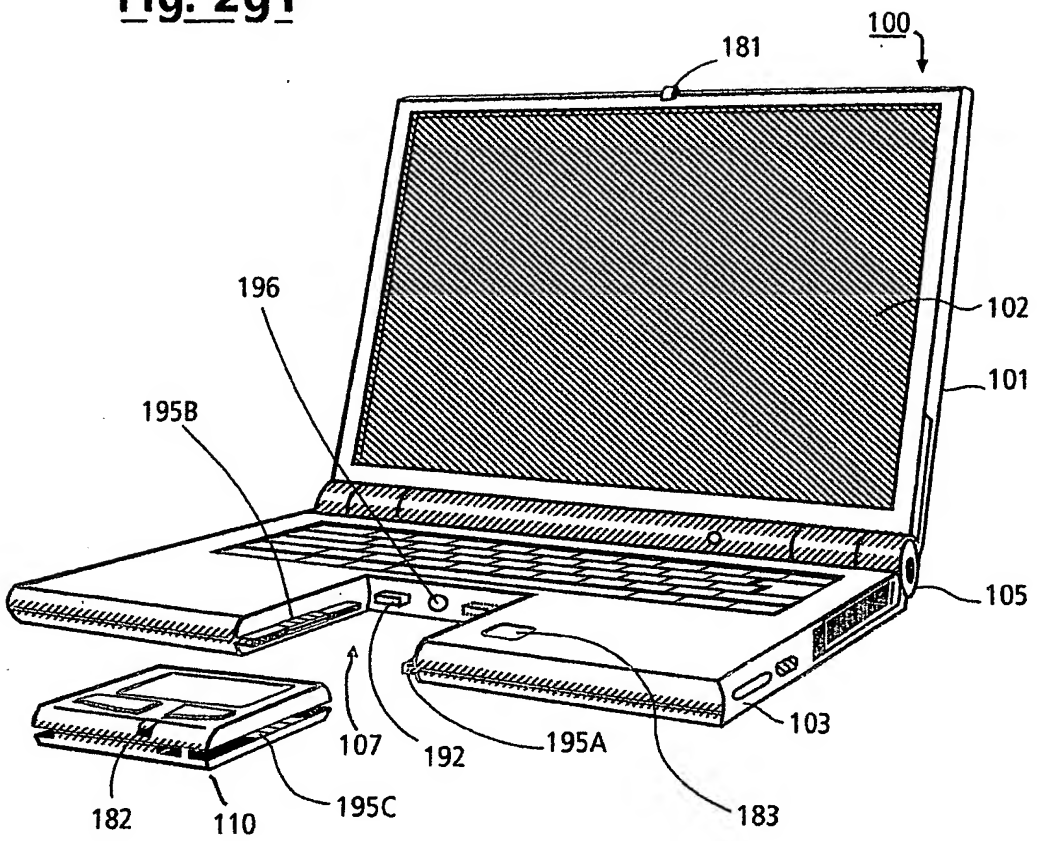


Fig. 2g1.1

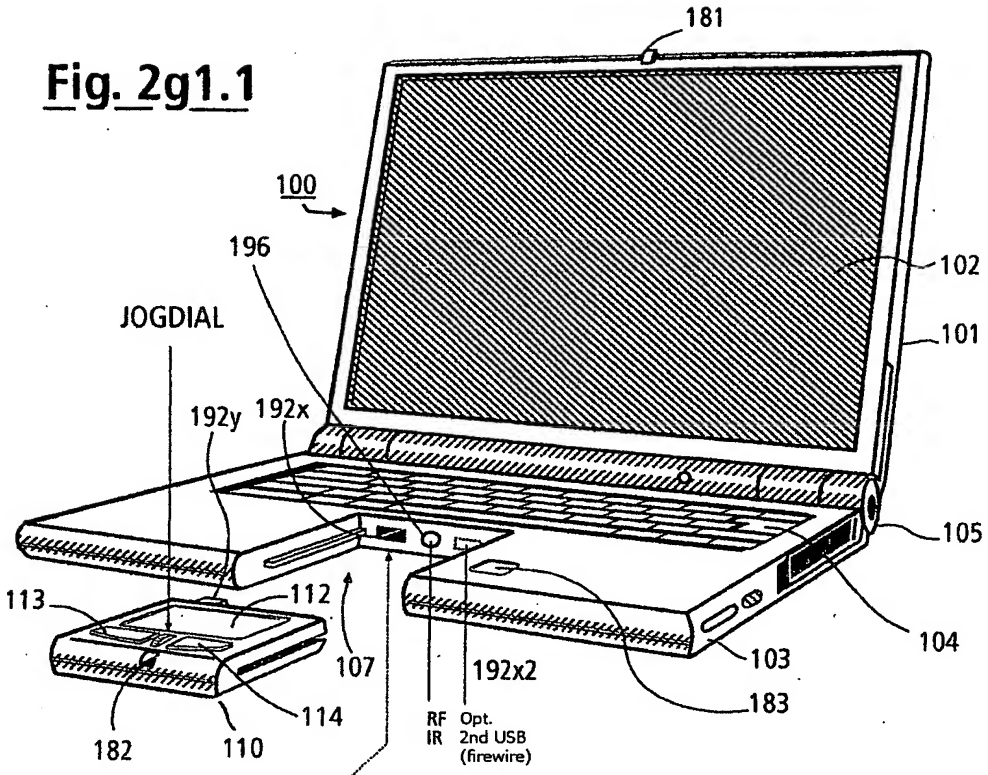


Fig. 2g1.2

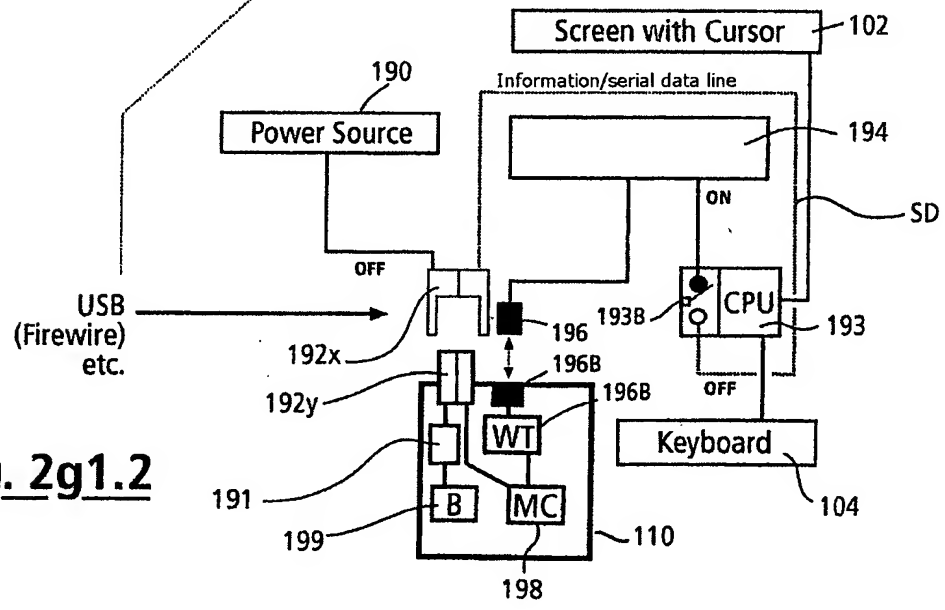


Fig. 2g1.3

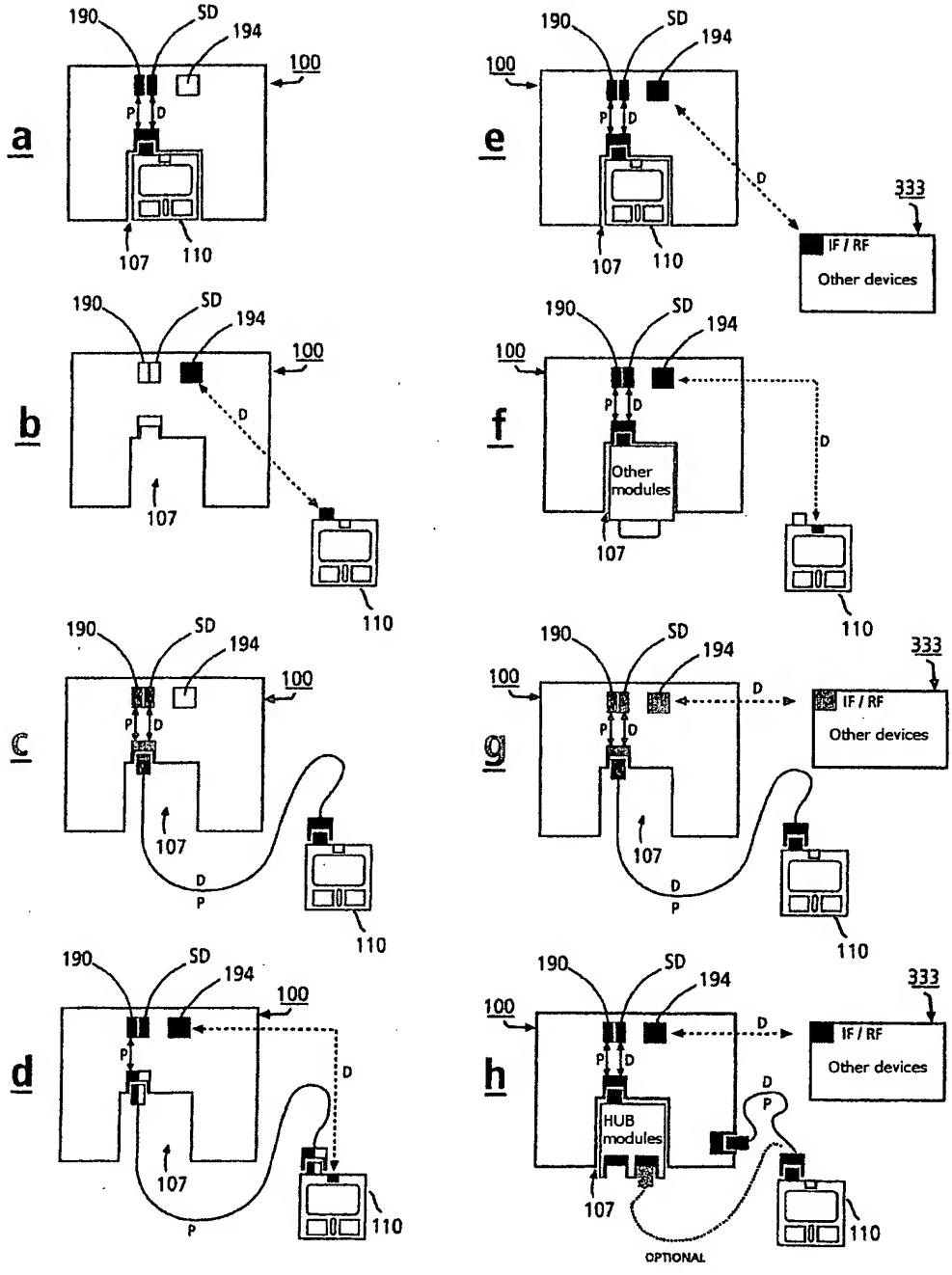
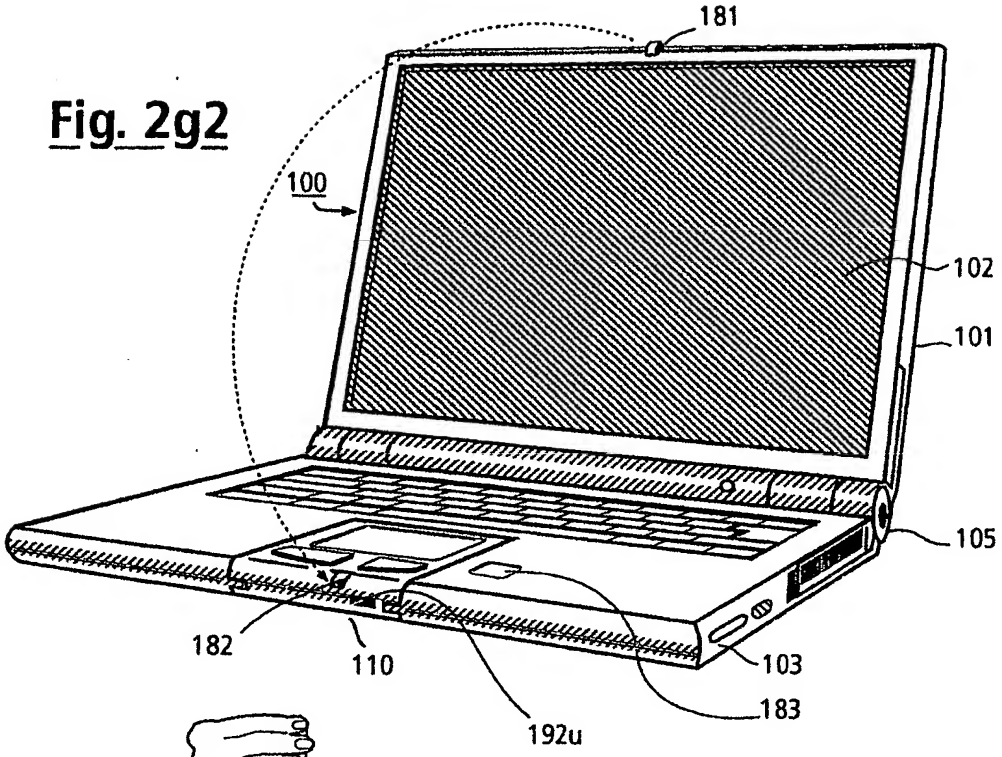

a
190
SD
194
100
P
D
107
110
b
D
c
P
d
e
333
IF / RF
Other devices
f
Other modules
g
h
HUB modules
OPTIONAL

Fig. 2g2



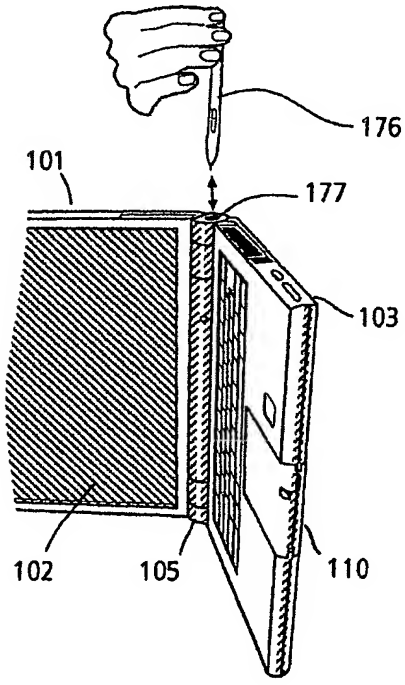


Fig. 2g3

Fig. 2g4

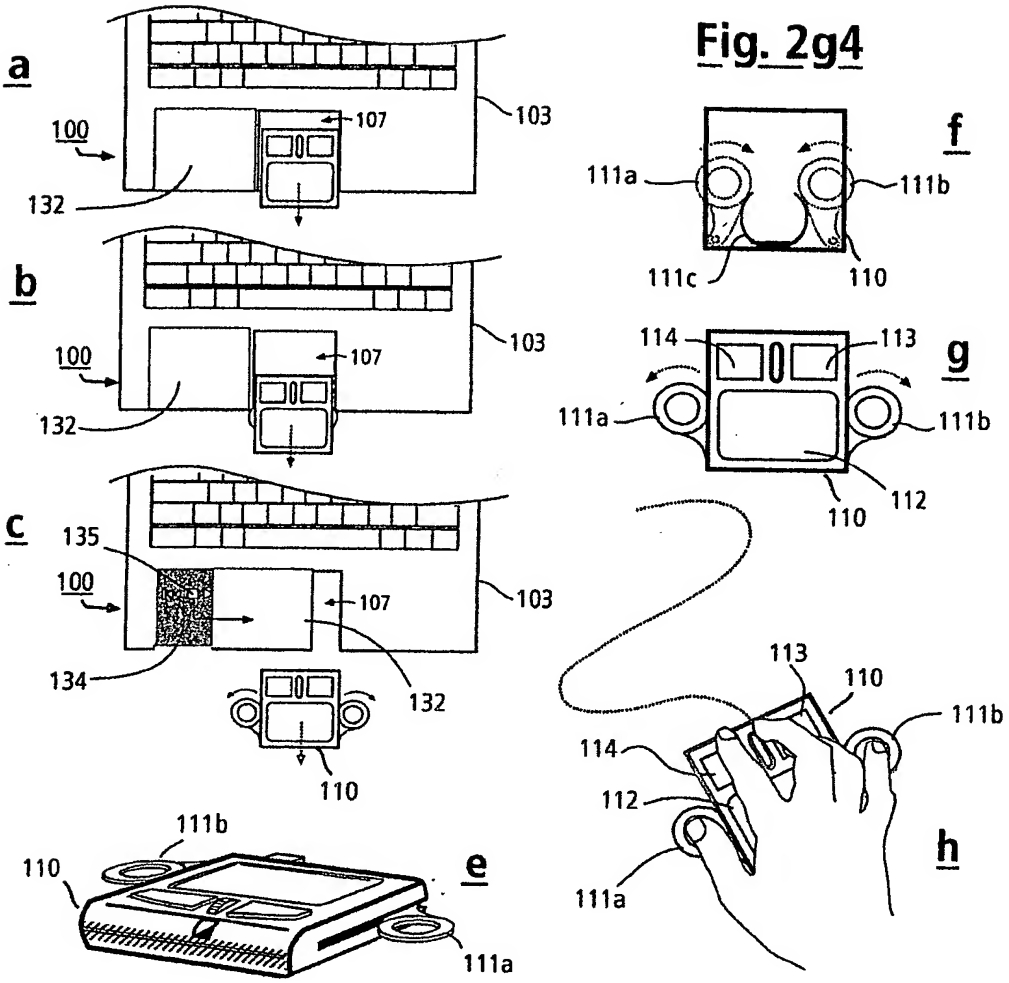

a
100
107
103
132
b
100
107
103
132
c
135
100
107
103
134
132
110
e
111b
110
111a
d
100
135
134
183
136
133
107
132
103
f
111a
111b
111c
110
g
114
113
111a
111b
112
110
h
113
110
111b
114
112
111a

Fig.3

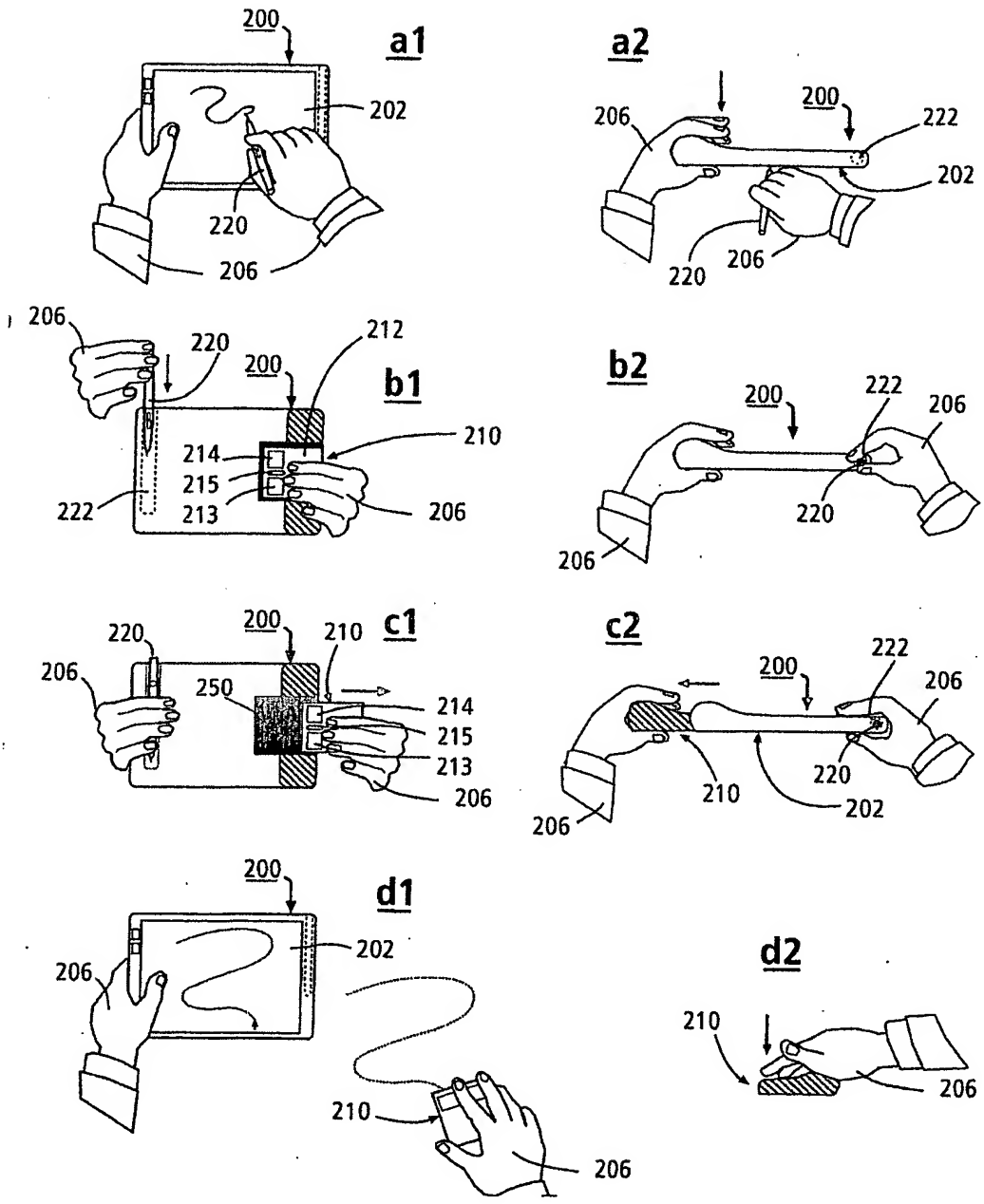
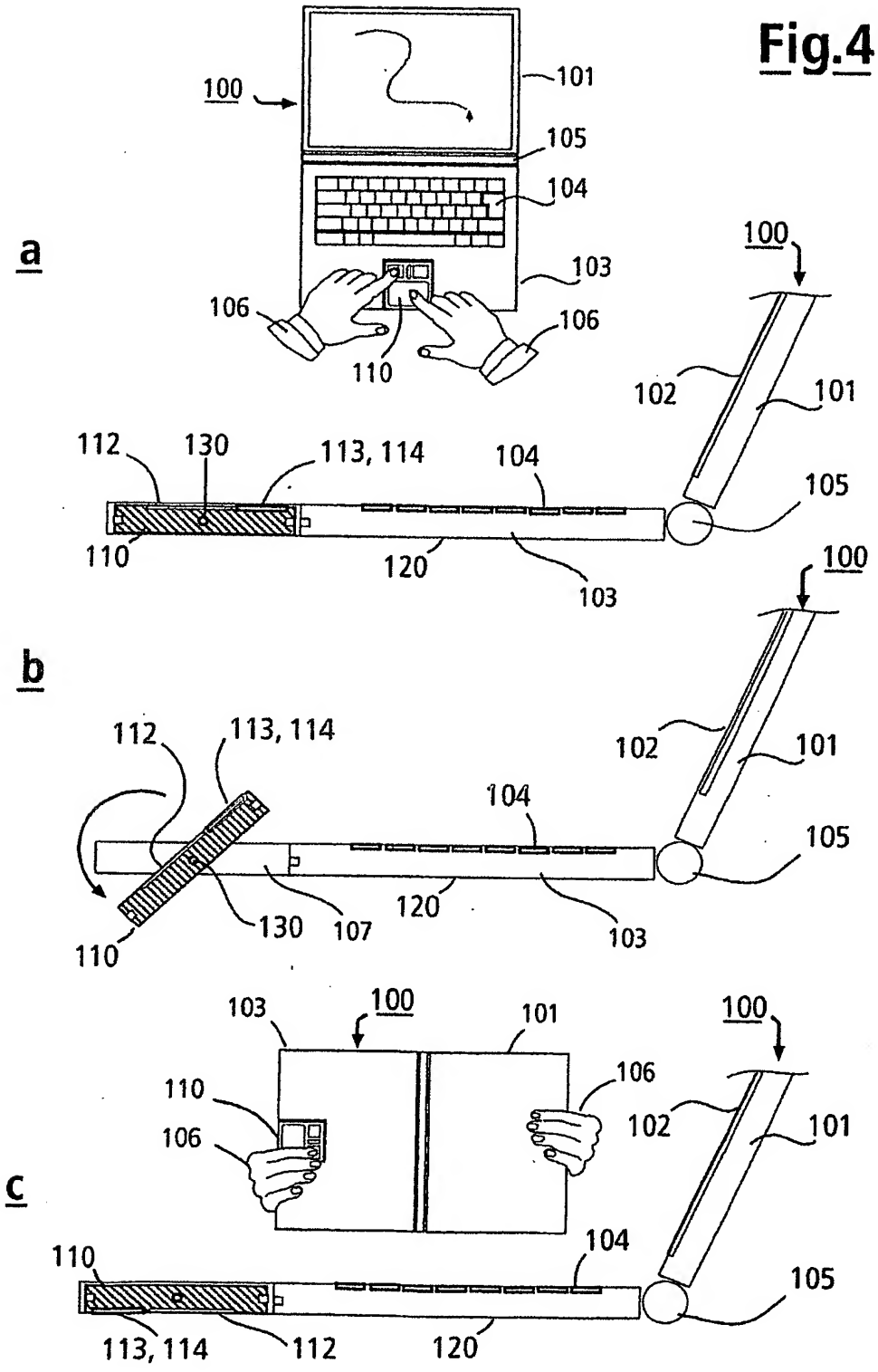

a1
200
202
220
206
a2
200
206
222
202
220
206
b1
206
220
200
212
210
214
215
213
222
206
b2
200
222
206
220
206
c1
220
200
210
206
250
214
215
213
206
c2
222
200
206
220
210
202
206
d1
200
202
206
210
206
d2
210
206

Fig.4


a
100
101
105
104
103
106
106
110
100
102
101
112
130
113, 114
104
105
110
120
103
b
100
112
113, 114
102
101
104
105
130
107
120
110
103
c
103
100
101
100
110
106
106
102
101
104
110
105
113, 114
112
120

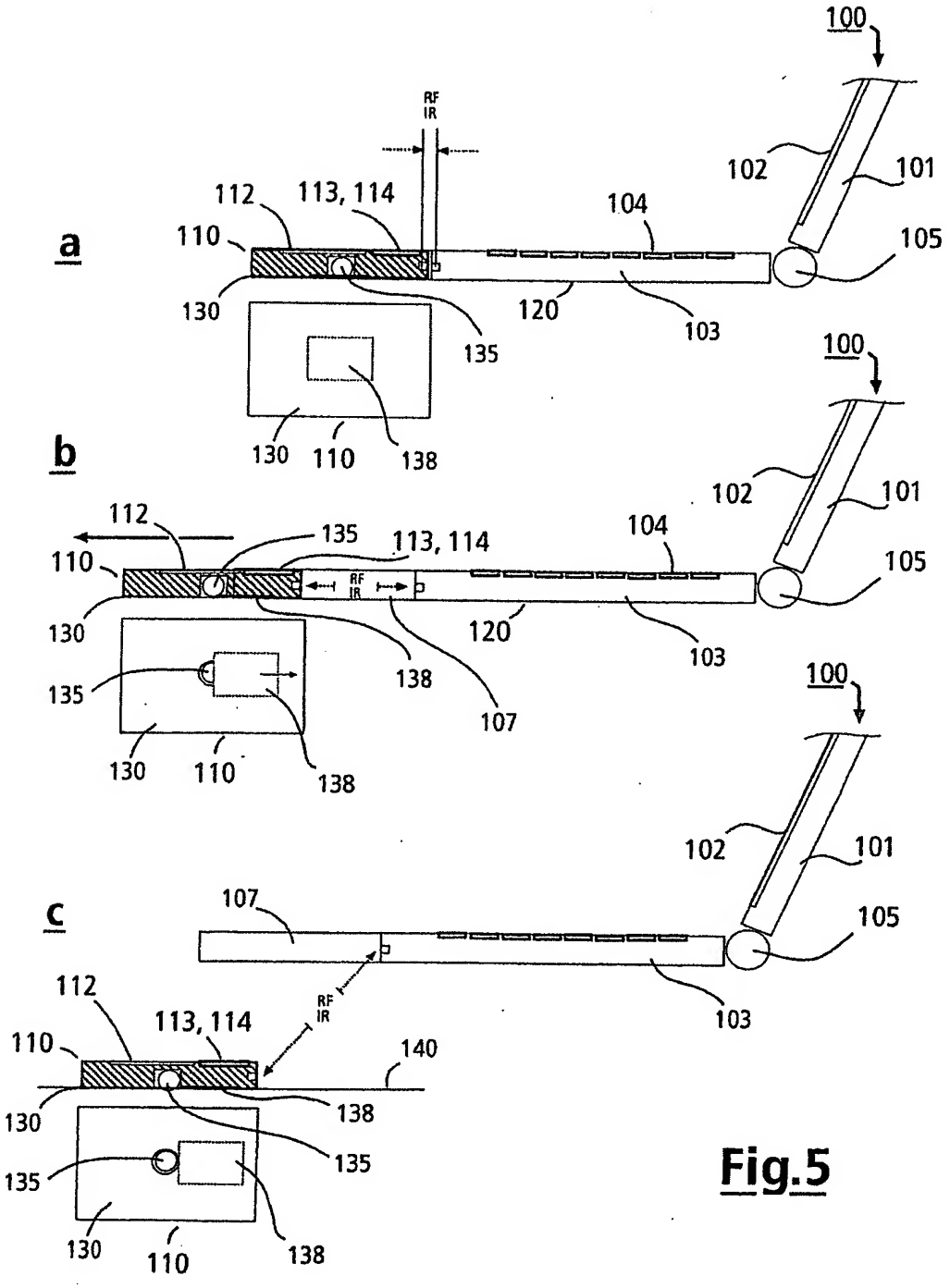
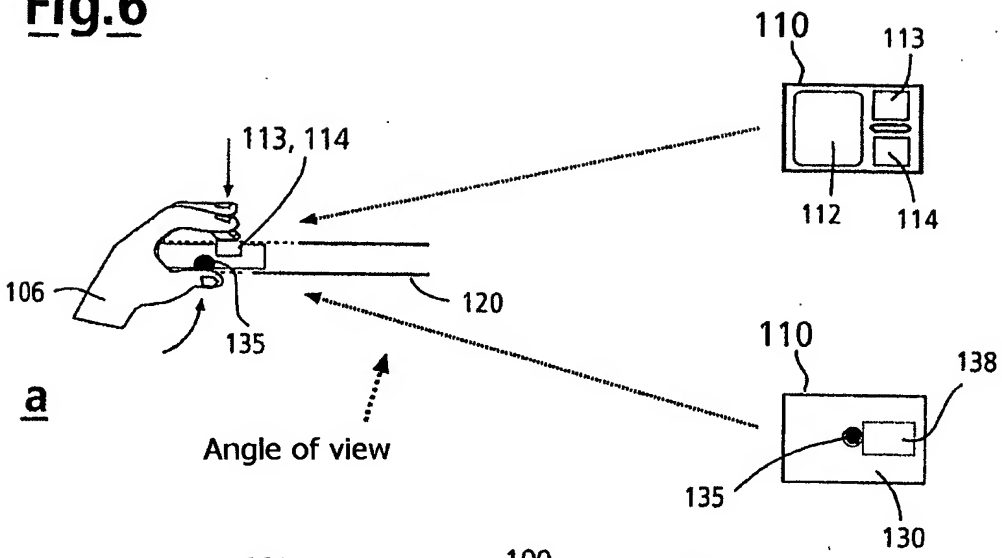
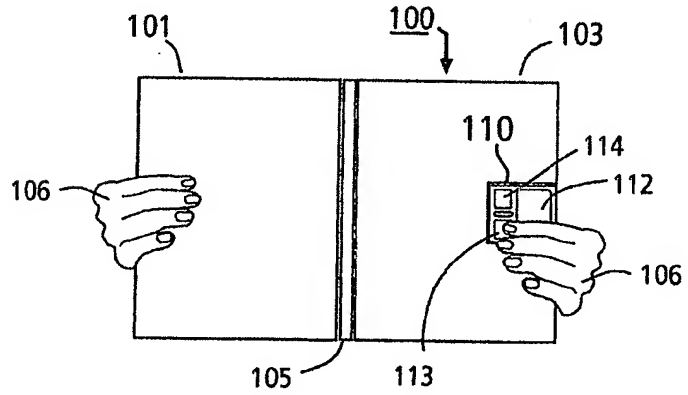

a
b
c
100
101
102
103
104
105
107
110
112
113, 114
120
130
135
138
140
RF
IR

Fig.5

Fig.6


110
113
113, 114
112
114
106
120
135
a
Angle of view
110
138
135
130


b
101
100
103
110
114
112
106
106
105
113

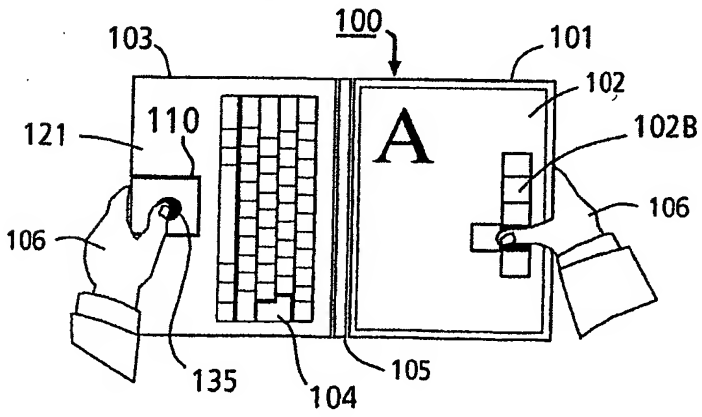
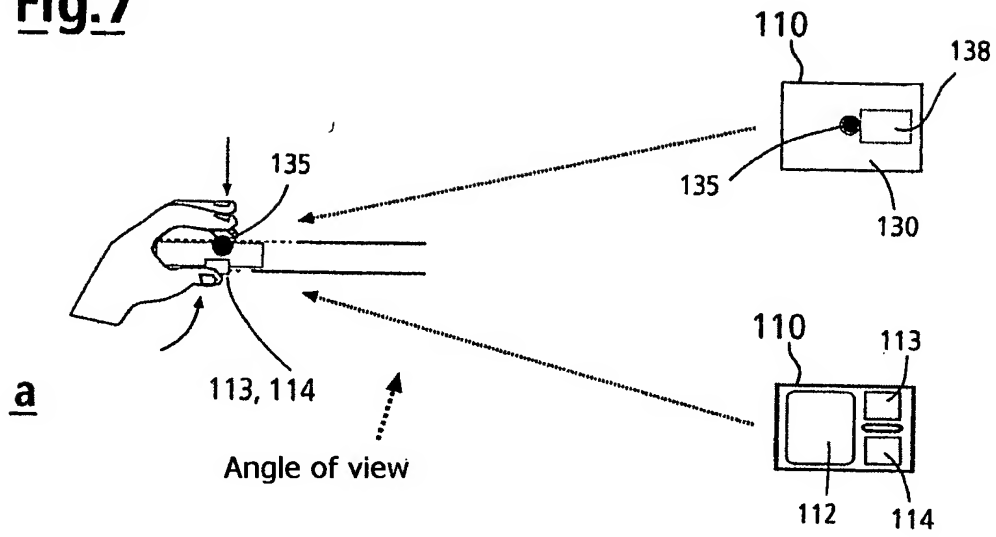
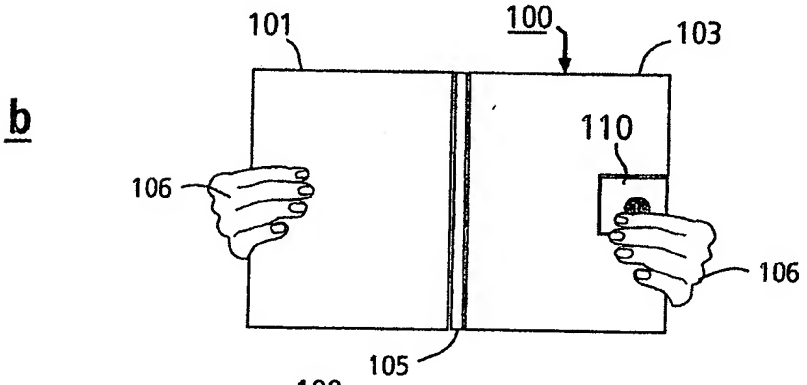

c
103
100
101
102
110
121
A
102B
106
106
135
104
105

Fig.7


a
110
138
135
135
130
110
113
113, 114
112
114
Angle of view


b
101
100
103
110
106
106
105

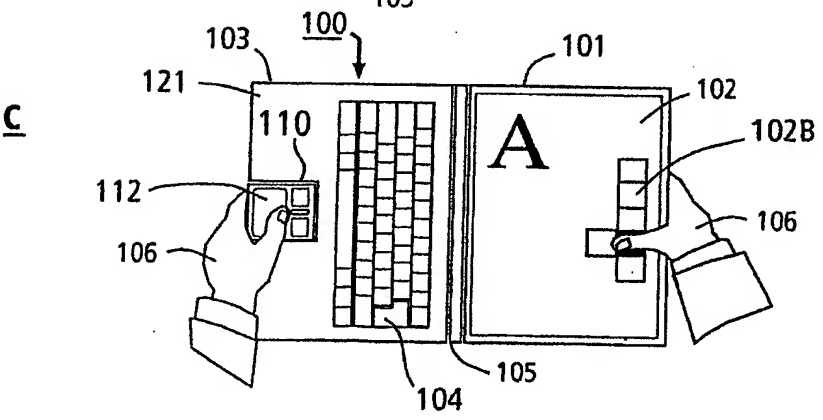

c
103
100
101
121
102
110
A
102B
112
106
106
105
104

Fig.8

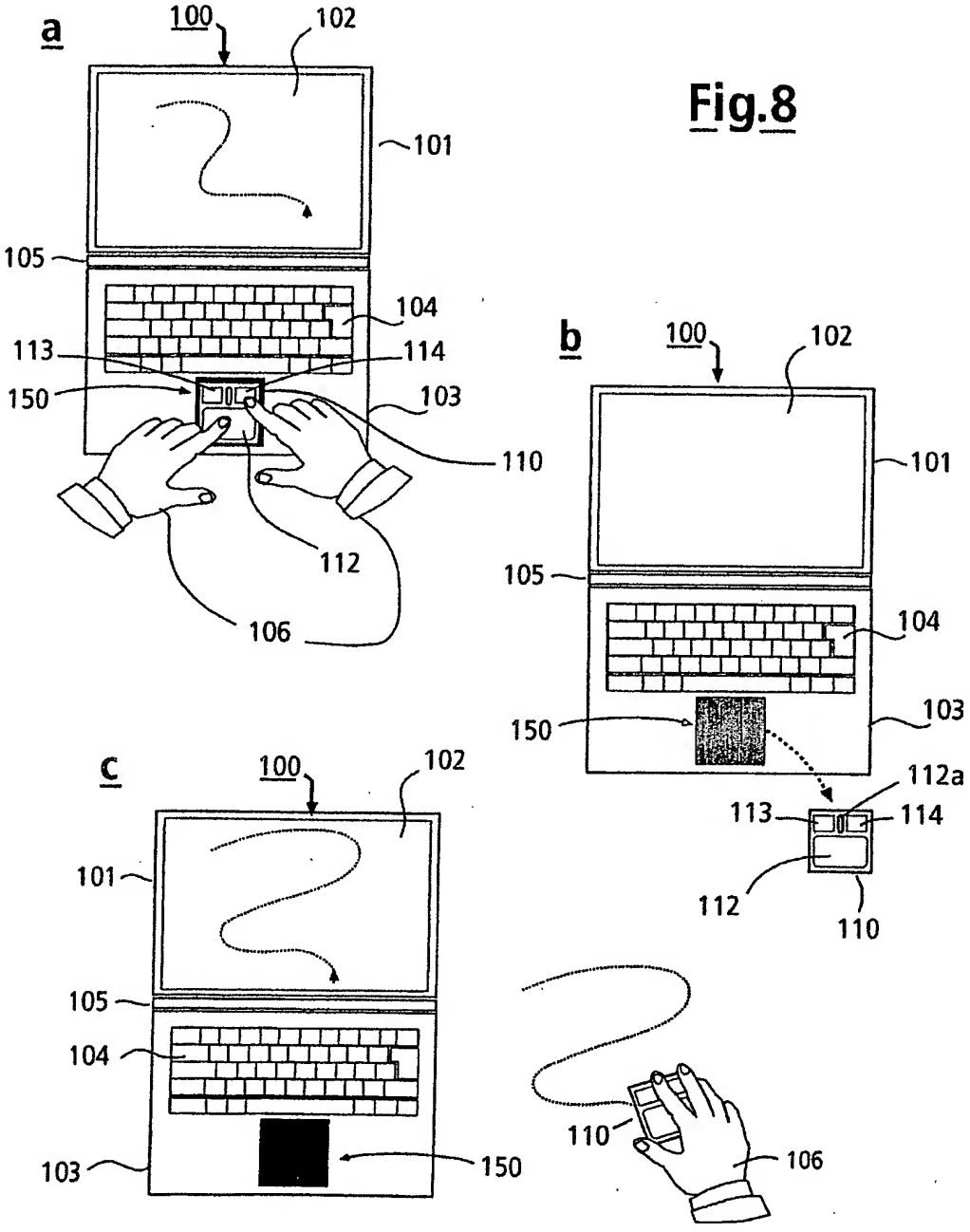
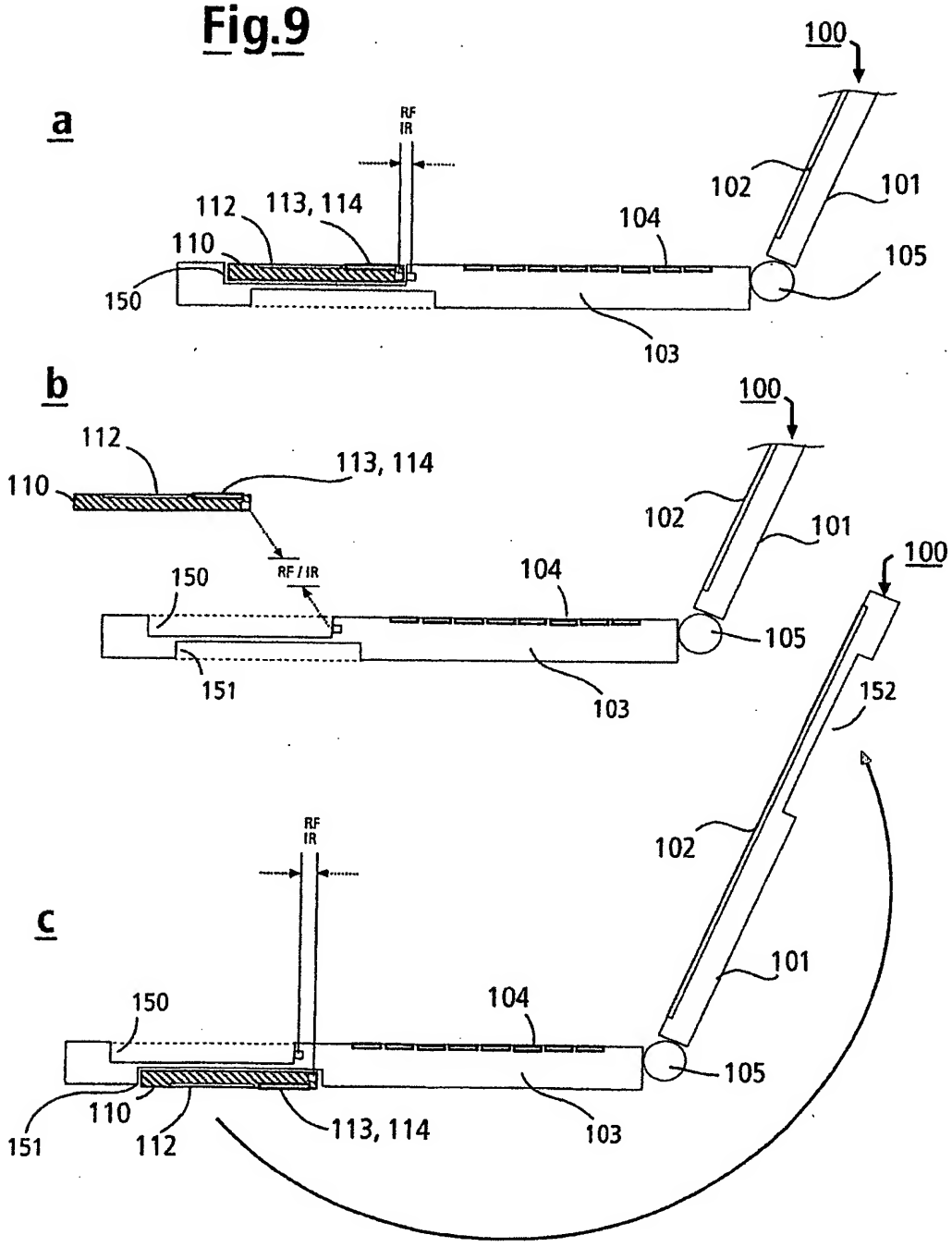

a
100
102
101
105
104
113
114
150
103
110
112
106
b
100
102
101
105
104
150
103
112a
113
114
112
110
c
100
102
101
105
104
103
150
110
106

Fig.9


a
RF
IR
100
102
101
112
113, 114
104
110
105
150
103
b
100
112
113, 114
110
102
101
100
RF / IR
150
104
105
151
103
152
c
RF
IR
102
101
150
104
105
110
151
112
113, 114
103

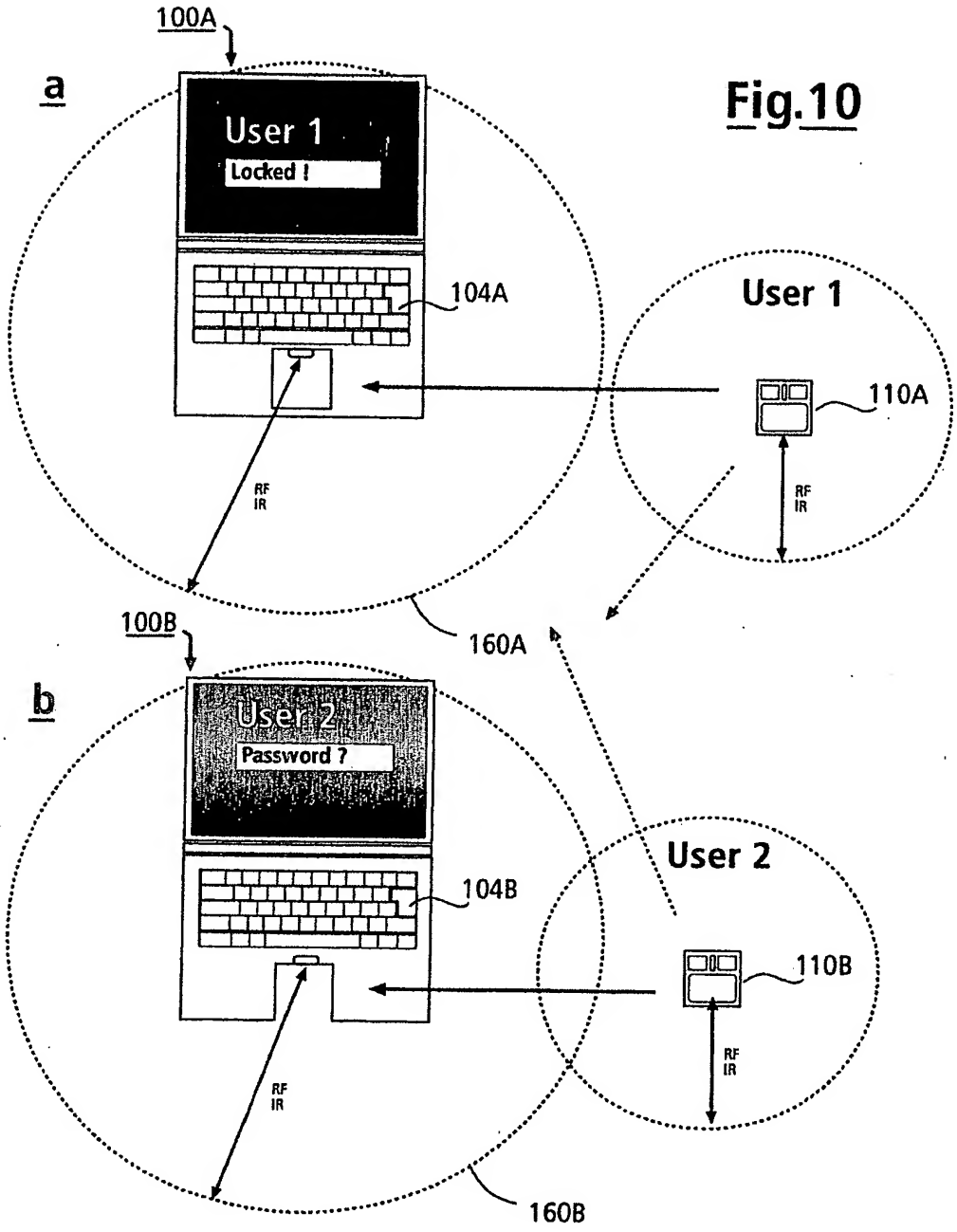

100A
a
User 1
Locked !
104A
User 1
110A
RF
IR
RF
IR
160A
100B
b
User 2
Password ?
104B
User 2
110B
RF
IR
RF
IR
160B

Fig.10

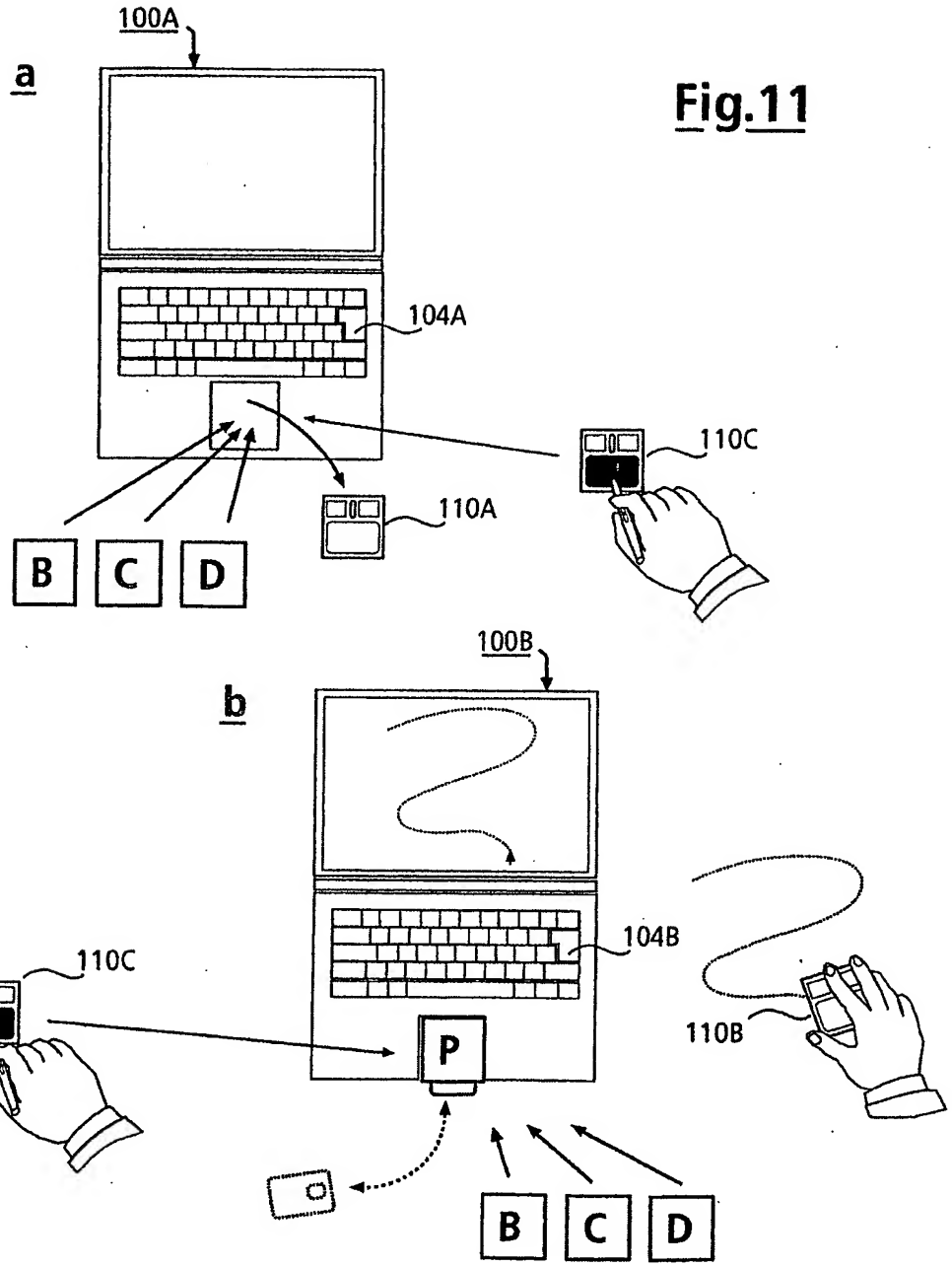


Fig.11

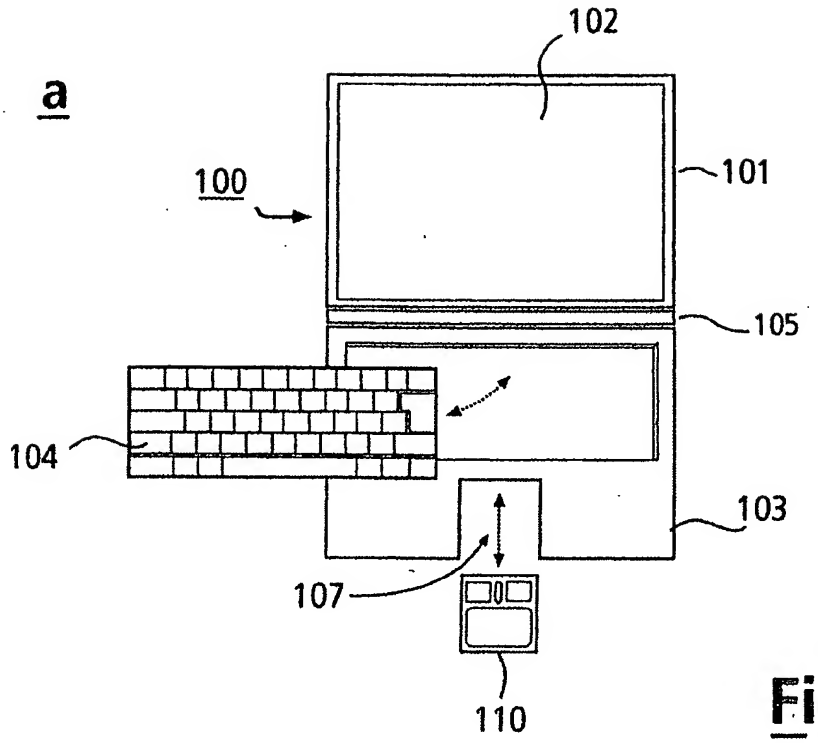
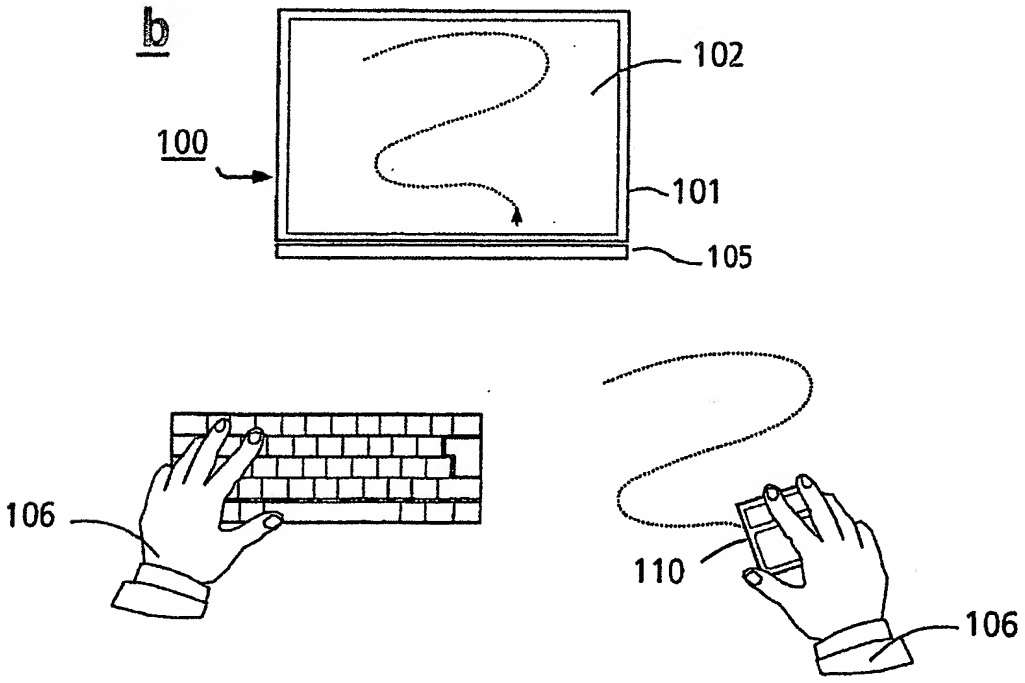


Fig.12



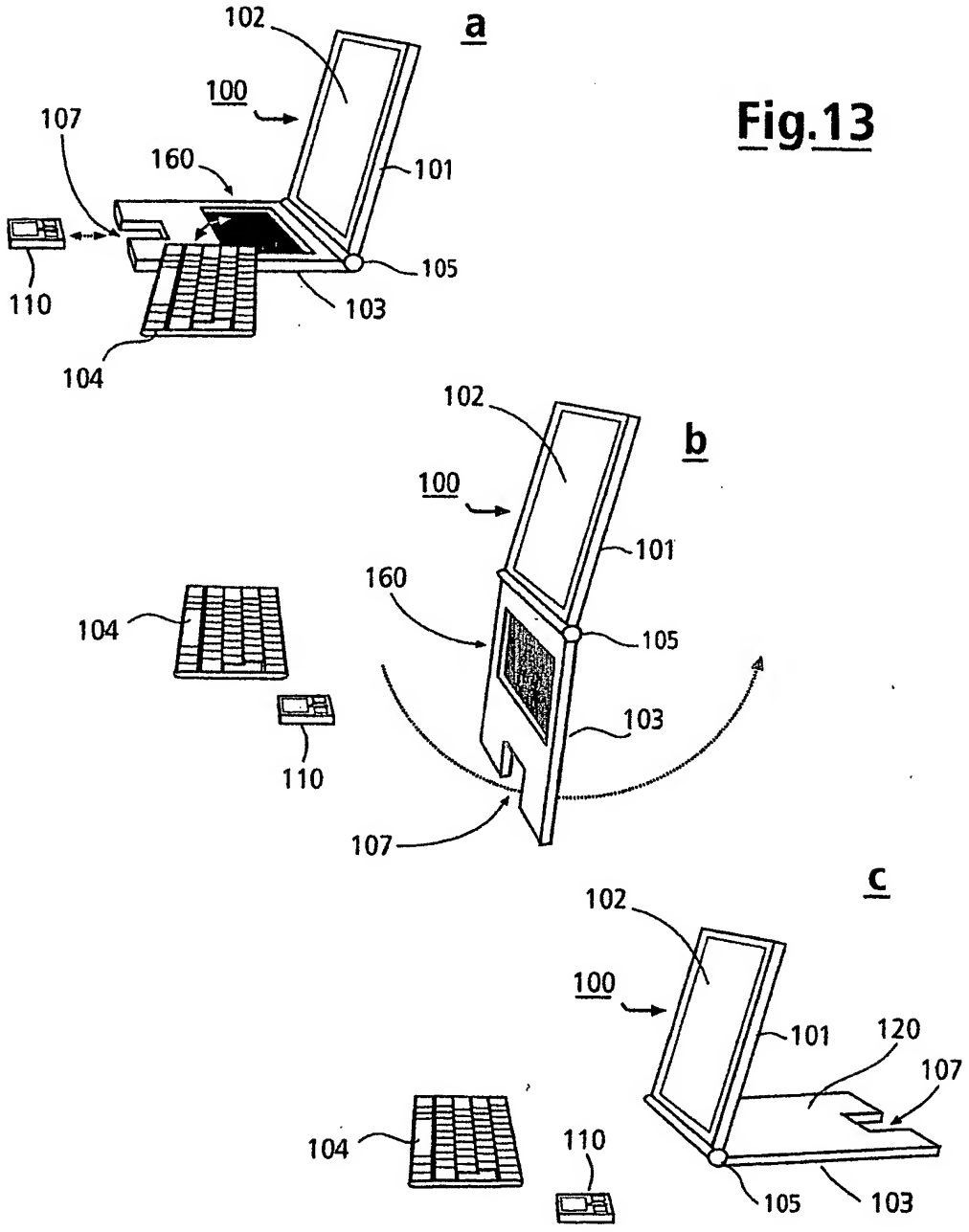

a
102
100
107
160
101
105
110
103
104
b
102
100
101
160
105
104
103
110
107
c
102
100
101
120
107
104
110
105
103

Fig.13

Fig.14

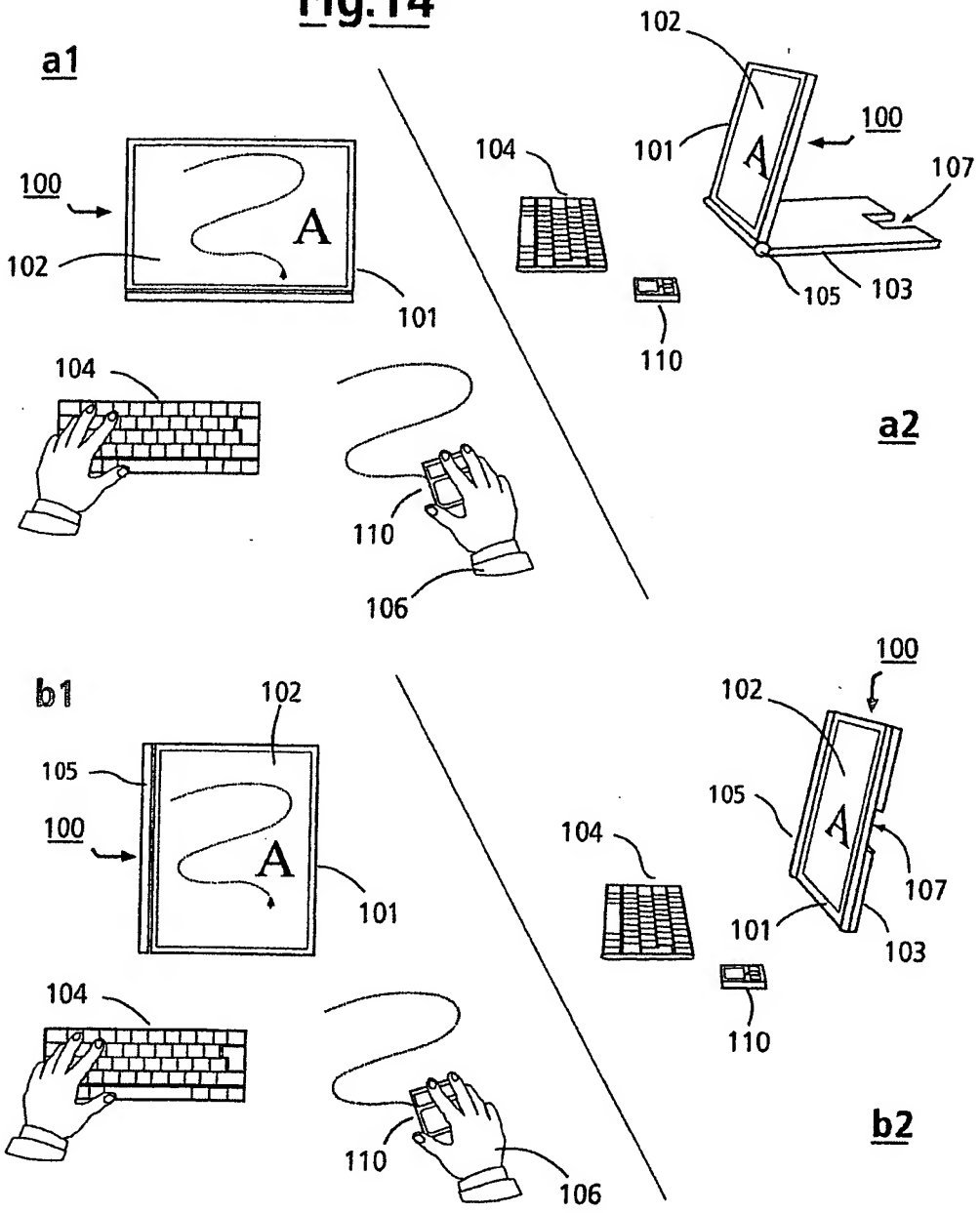
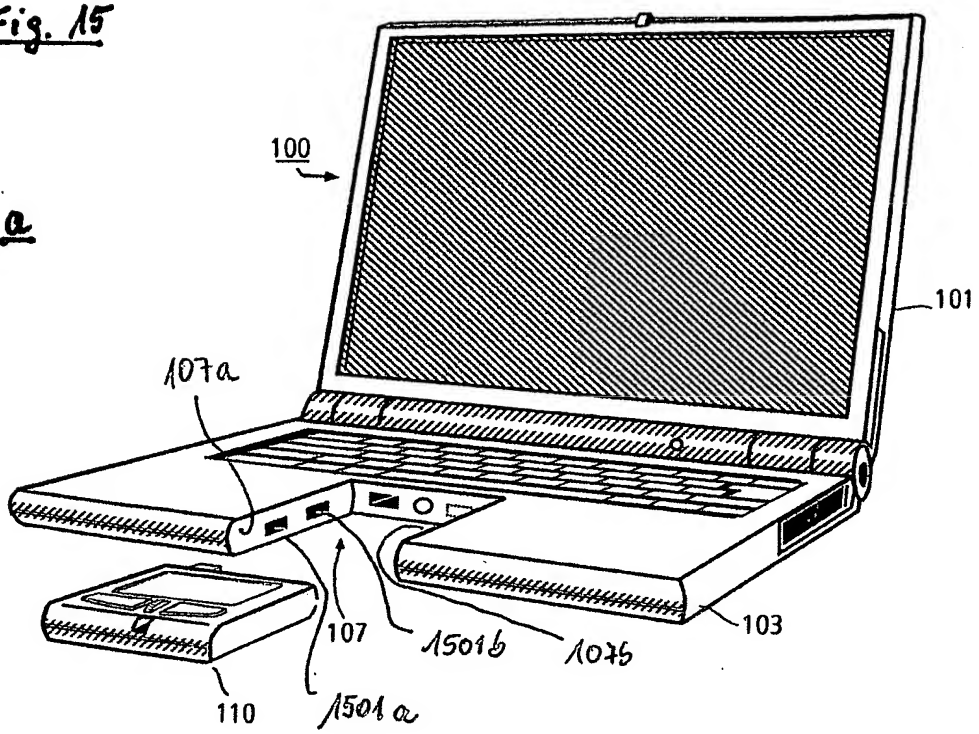

a1
100
102
A
101
104
110
106
a2
102
100
101
A
107
104
105
103
110
b1
102
105
100
A
101
104
110
106
b2
100
102
105
A
107
104
101
103
110

Fig. 15

a


100
101
107a
107
1501b
1075
103
110
1501a

b

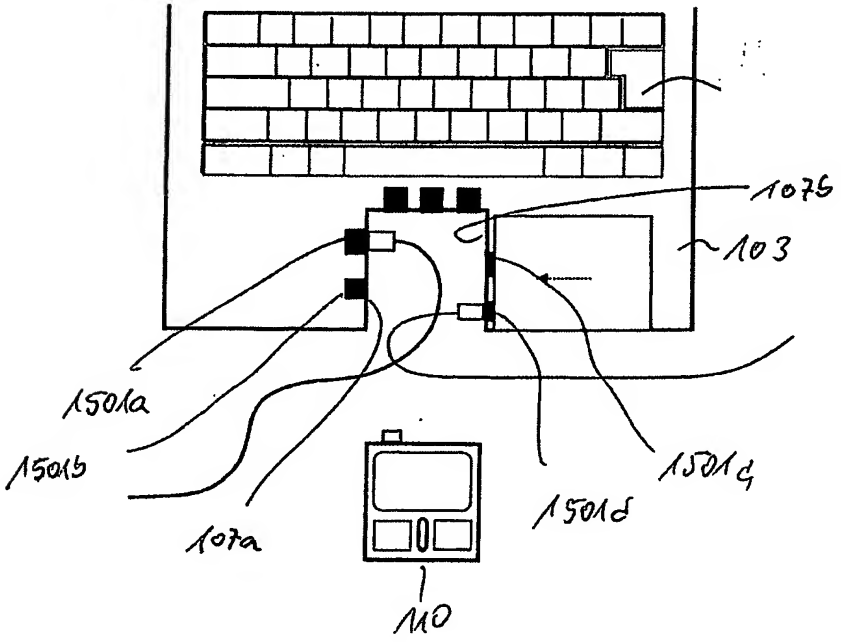

1075
103
1501a
1501b
107a
1501d
1501c
110

Fig. 16

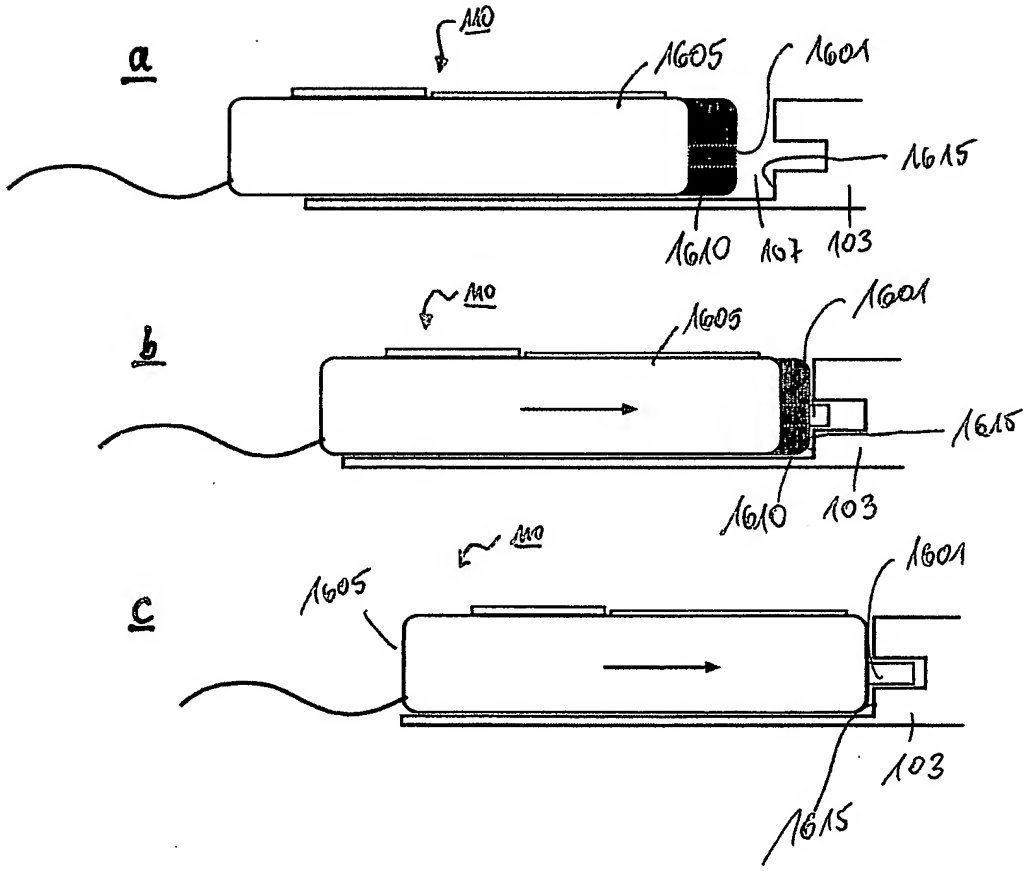

a
110
1605
1601
1615
1610
107
103
b
110
1605
1601
1615
1610
103
c
110
1605
1601
103
1615

Fig. 17

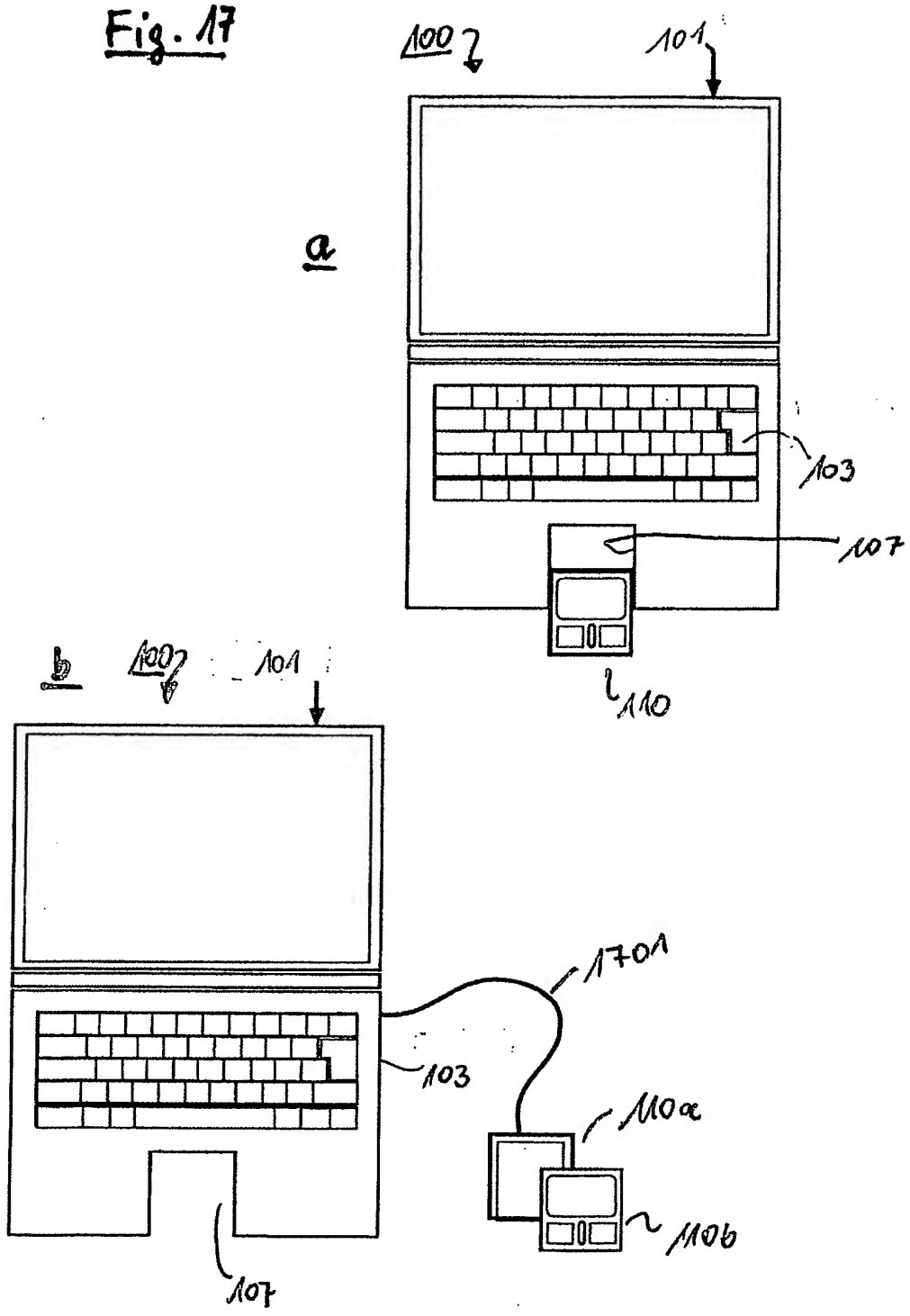


Fig. 17

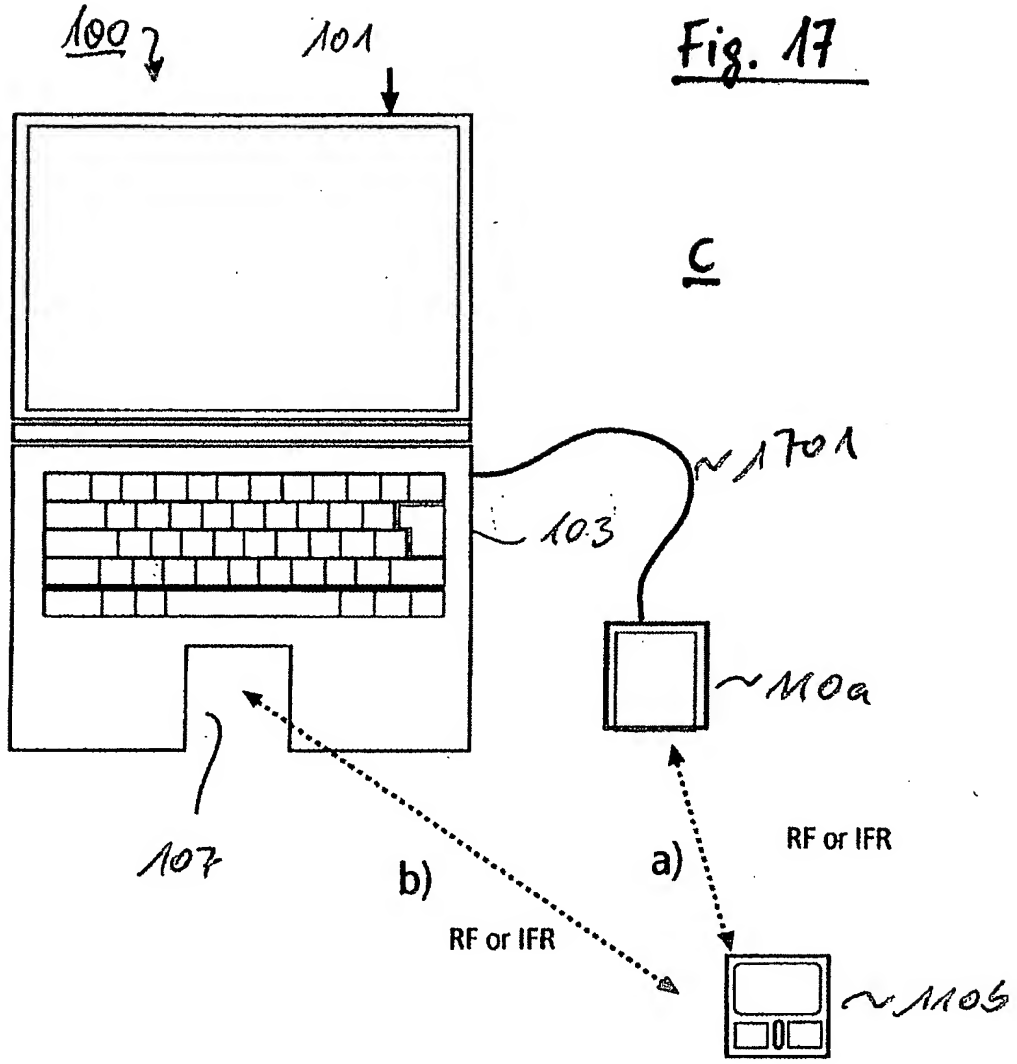
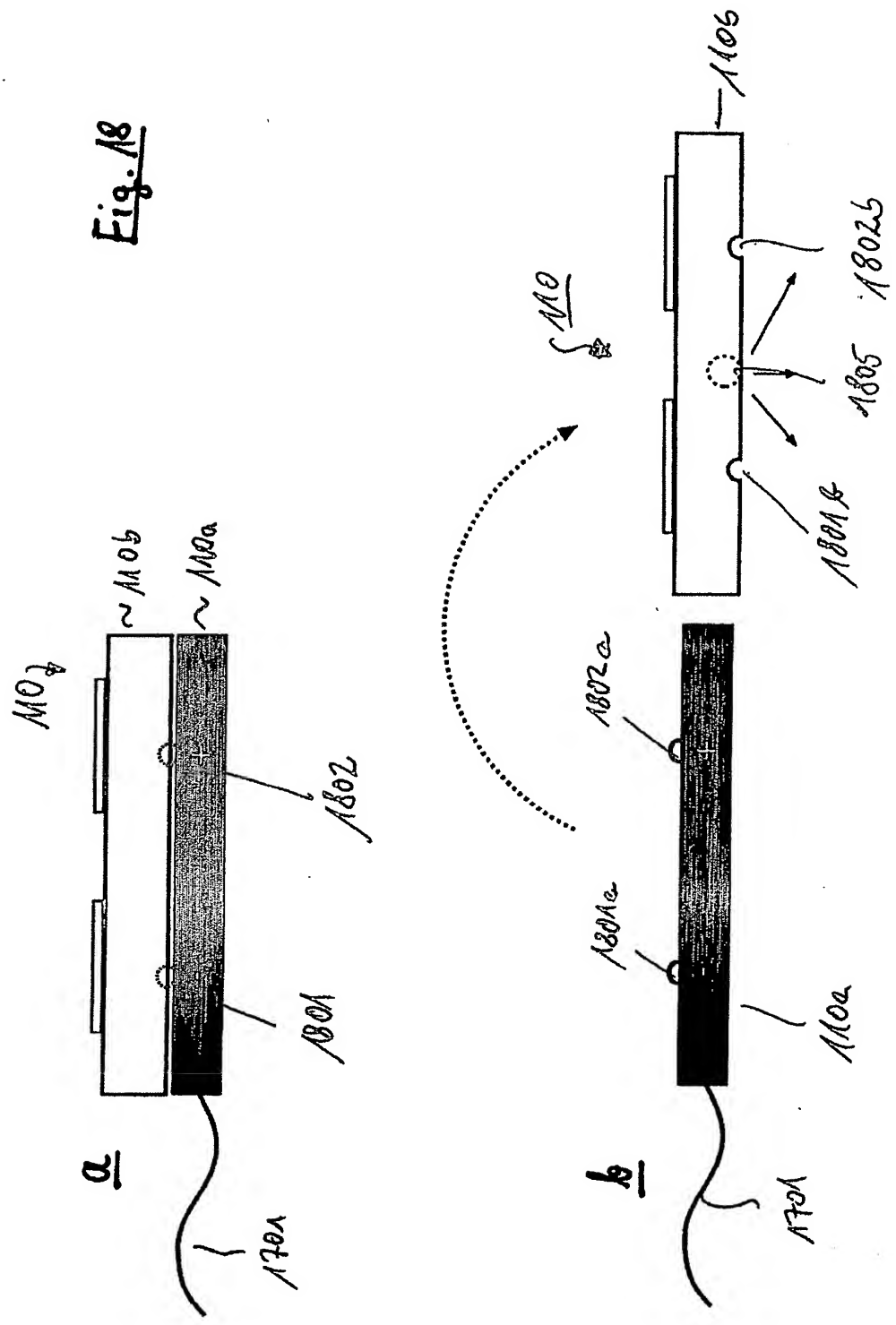


Fig. 18


a
b
1102
1104a
1105
1106
1107a
1801
1801a
1801b
1802
1802a
1802b
1805

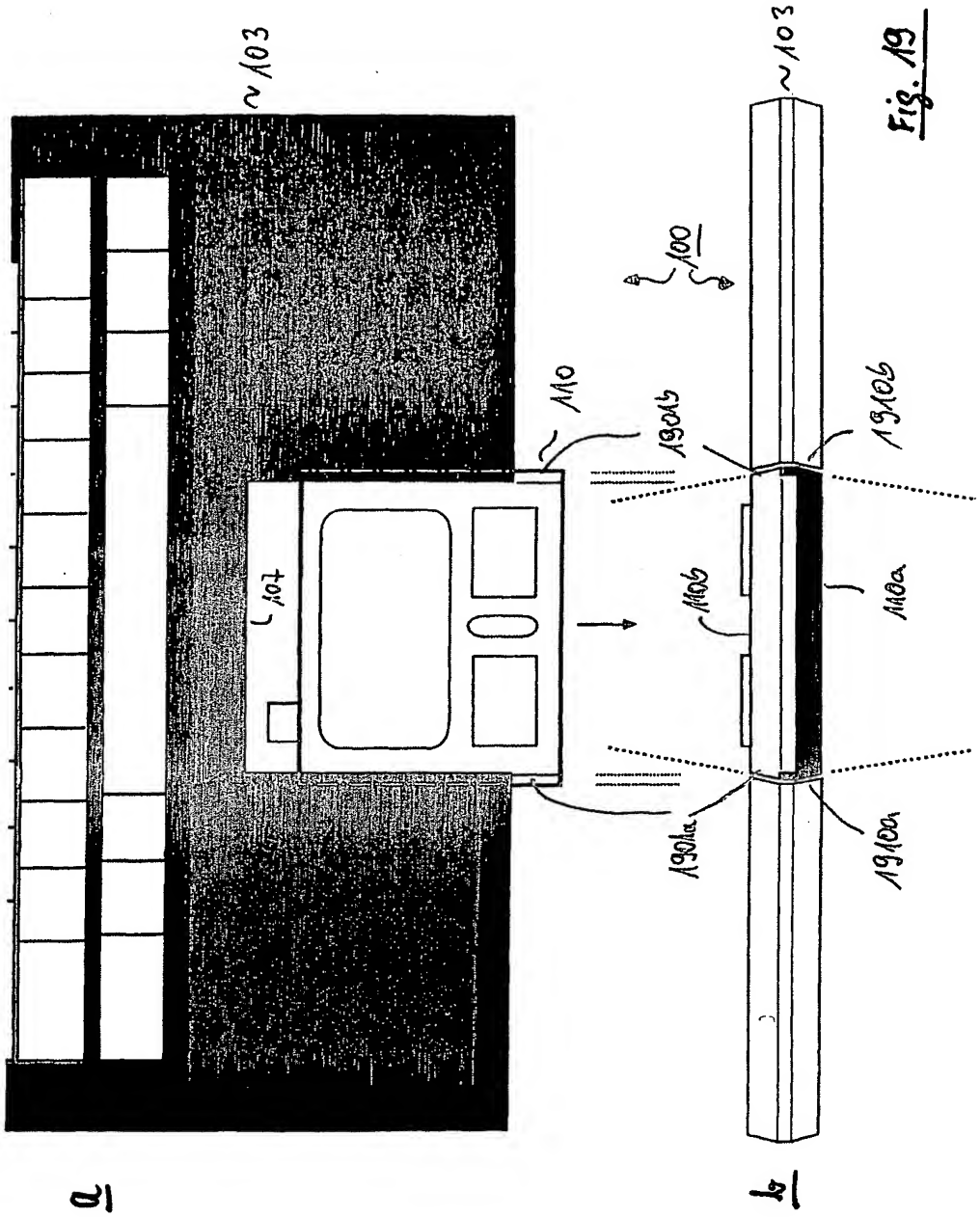


Fig. 19

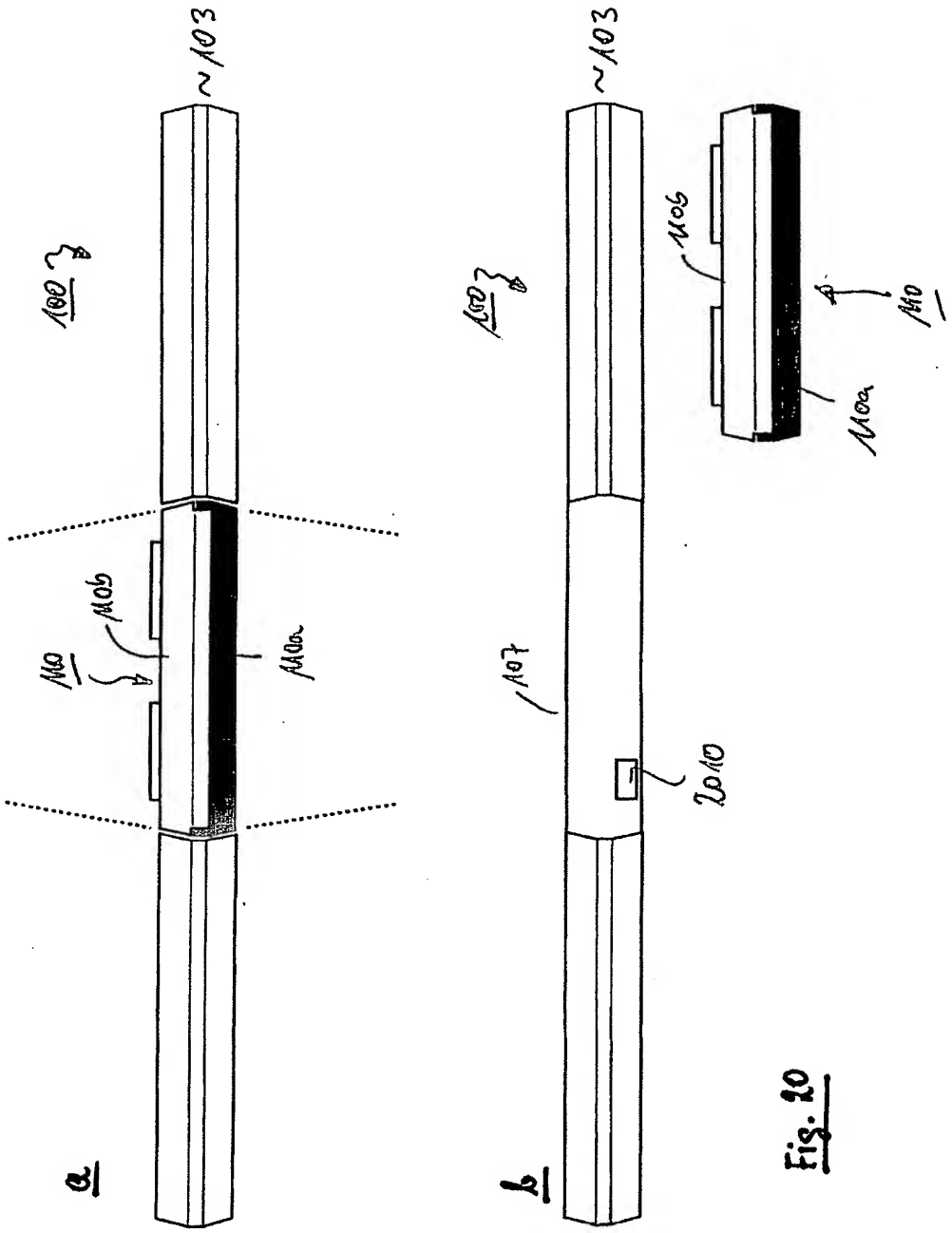


Fig. 10

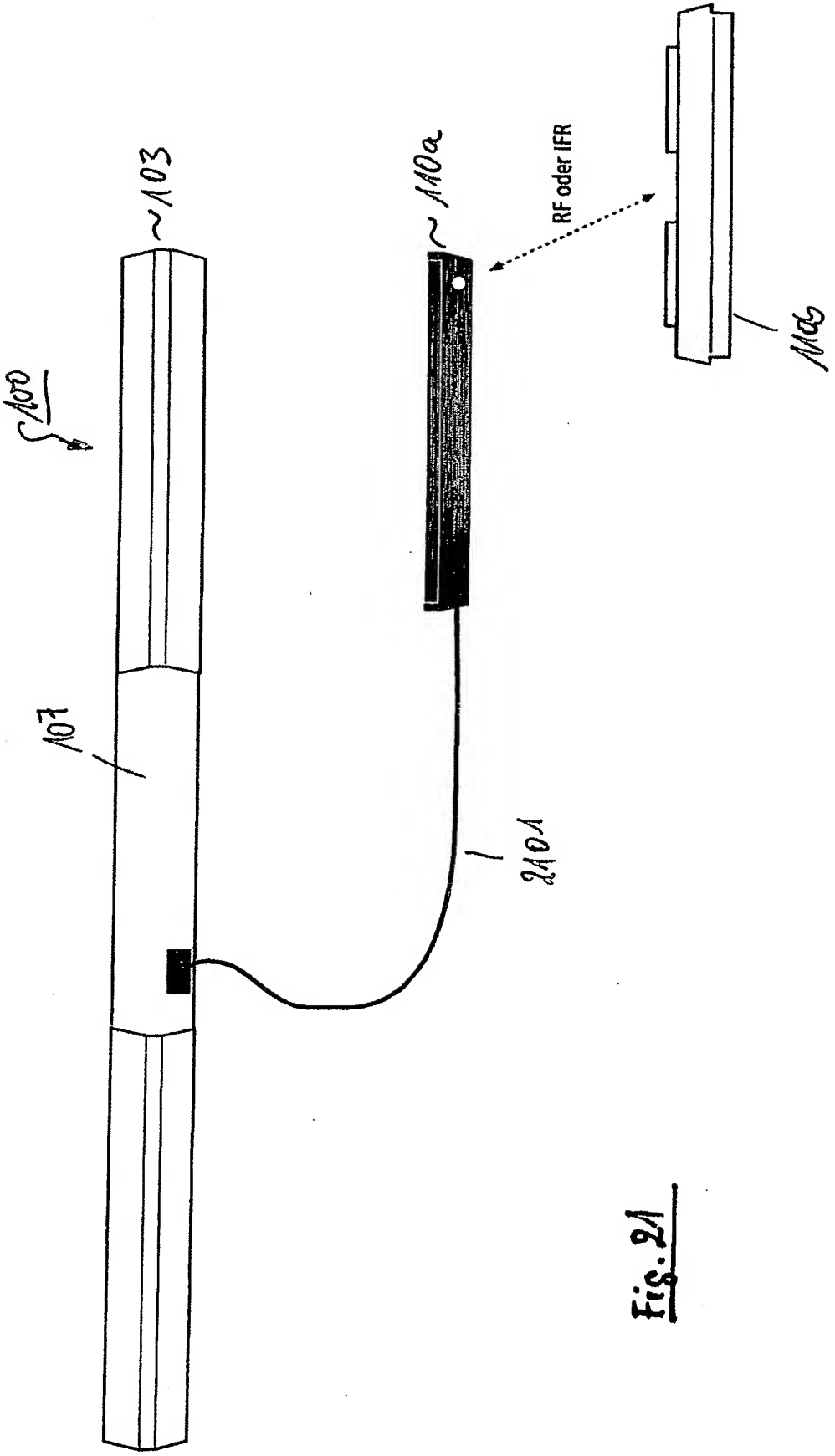
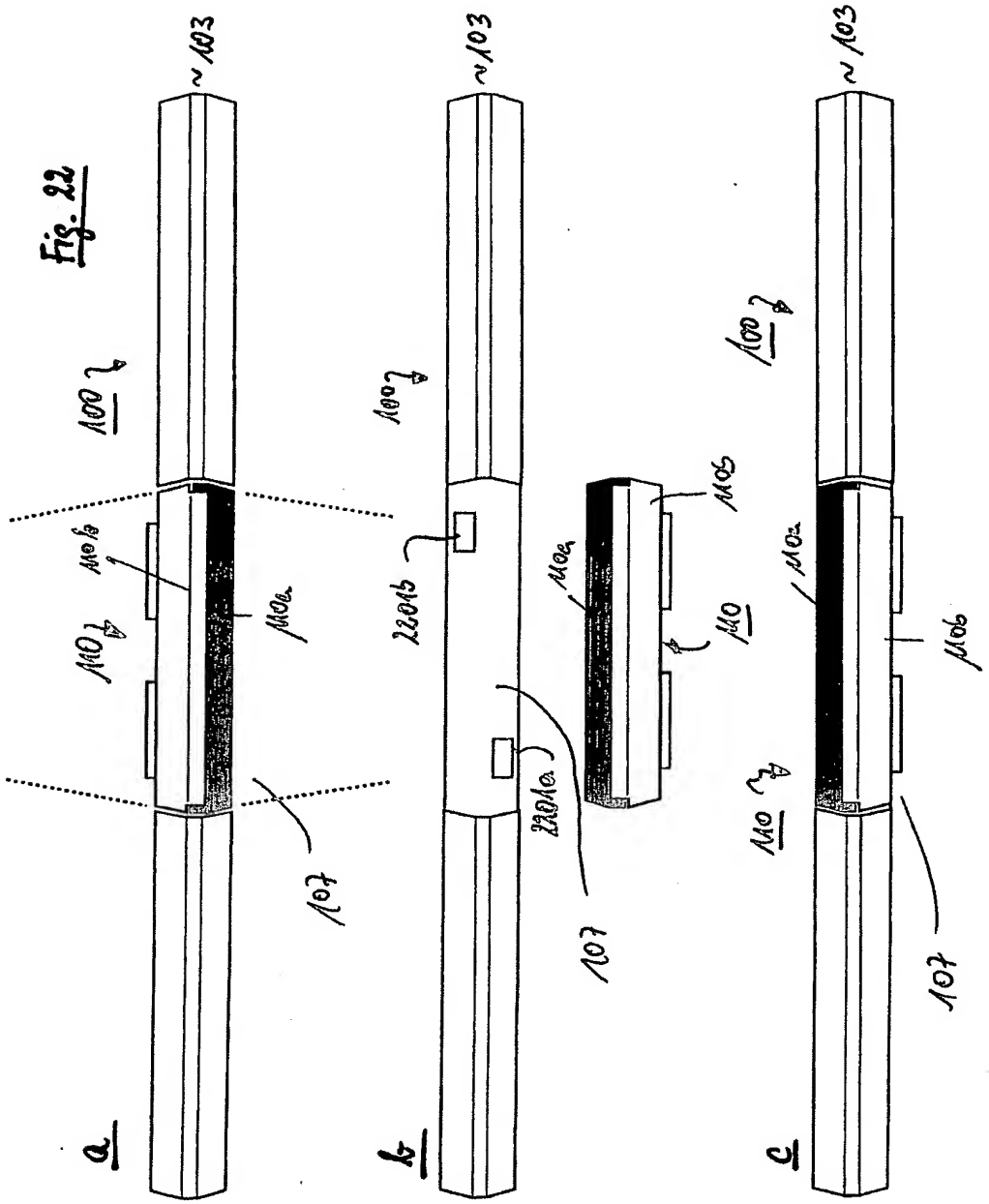
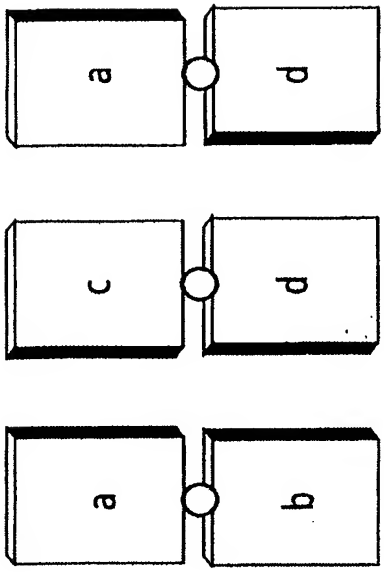


Fig. 21

Fig. 12





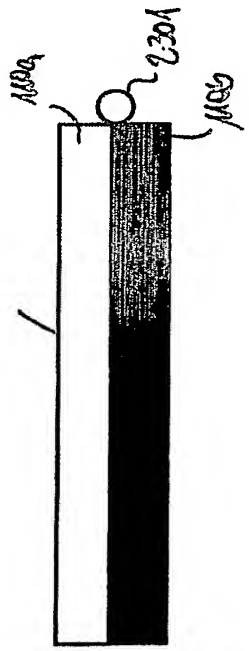
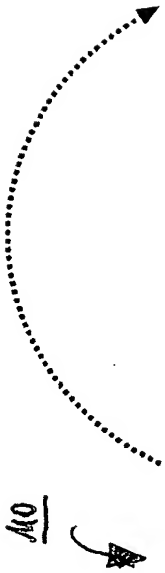


Fig. 13



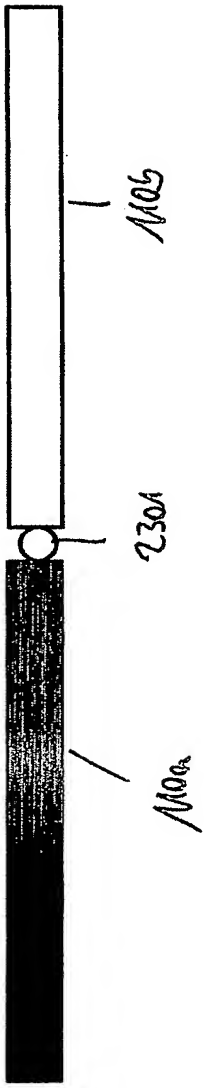


Fig. 14

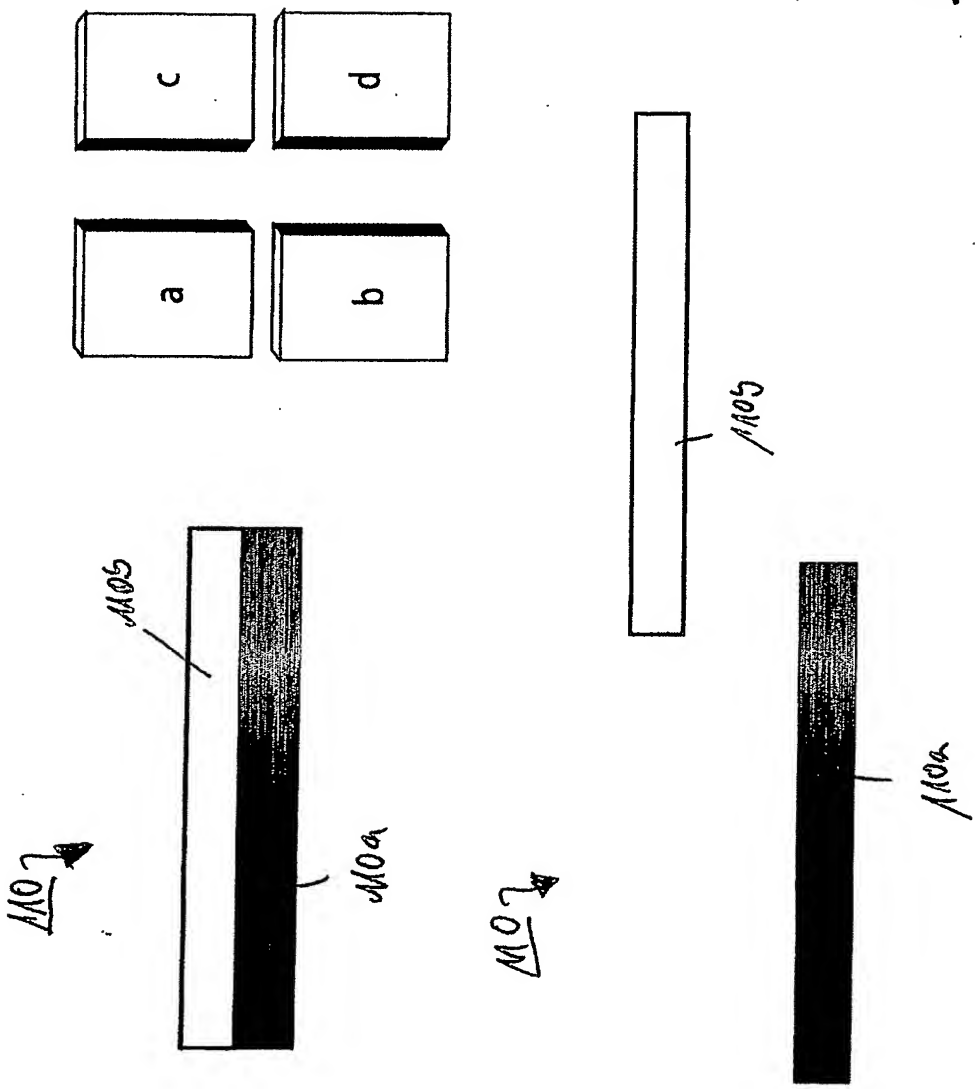


Fig. 15

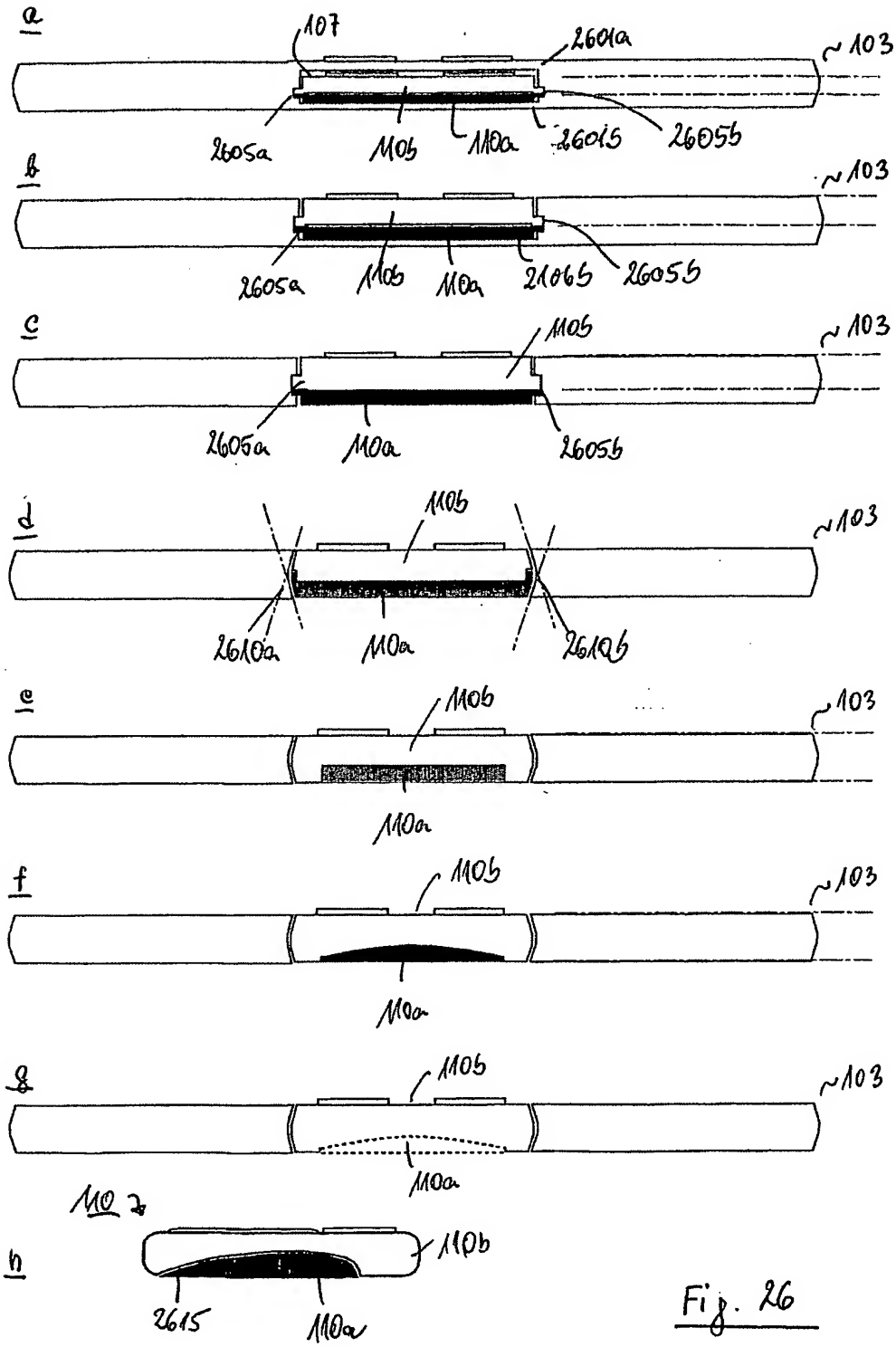

a
107
2601a
103
2605a
110b
110a
2601b
2605b
b
103
2605a
110b
110a
2106b
2605b
c
110b
103
2605a
110a
2605b
d
110b
103
2610a
110a
2610b
e
110b
103
110a
f
110b
103
110a
g
110b
103
110a
110 2
h
110b
2615
110a

Fig. 26

34/39

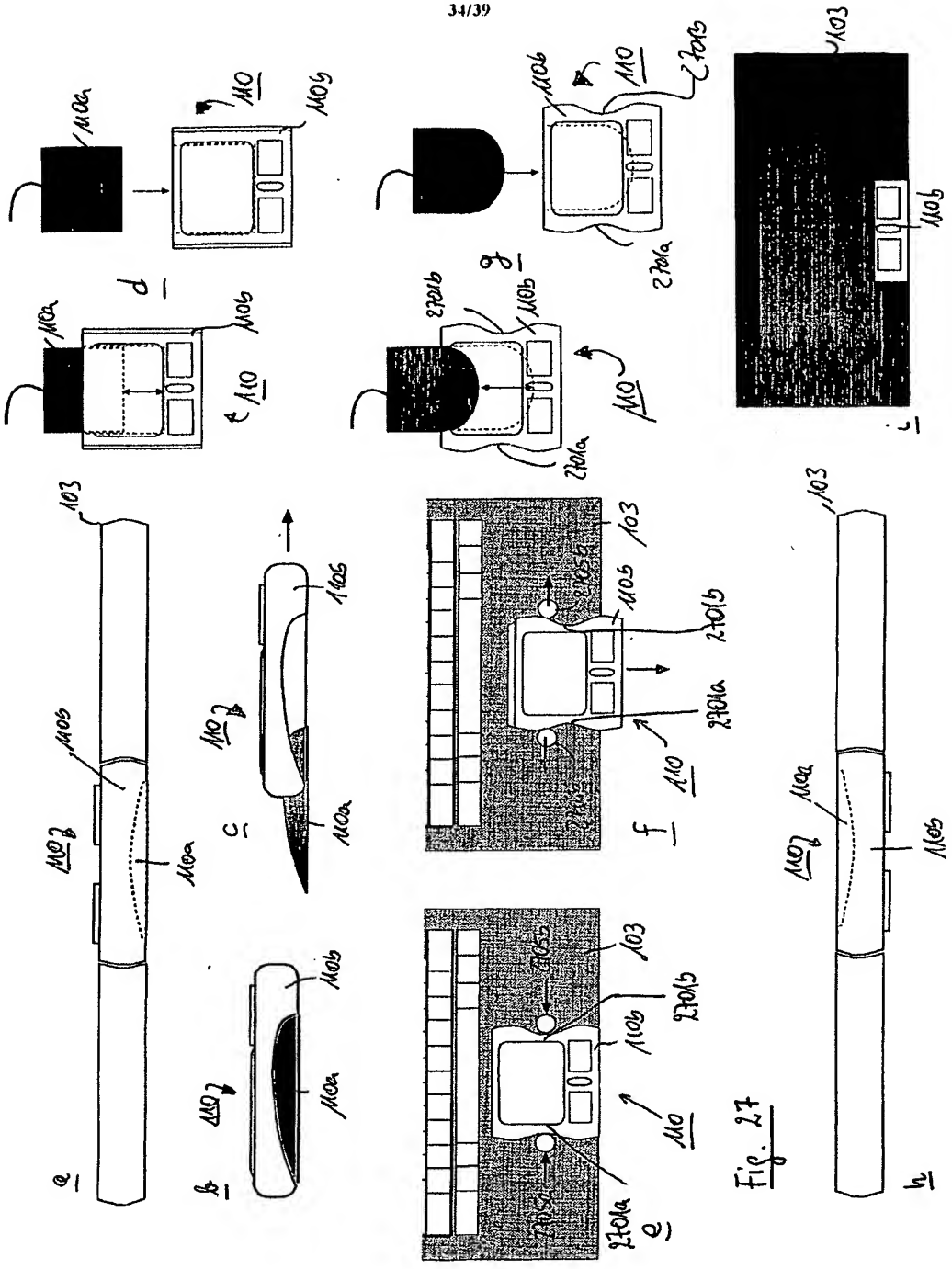

a
b
c
d
e
f
g
h
i
103
105a
105b
110
110a
110b
120a
120b
120c
120d
120e
120f

Fig. 27

Coupling bay for integrated decoupleable cursor control module, can be used for effectively coupling to other devices or facilities
(more connection possibilities or hiding interfaces by utilizing an enlarged side edge area)

Fig. 28

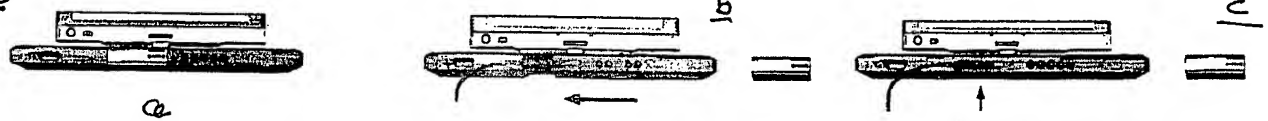
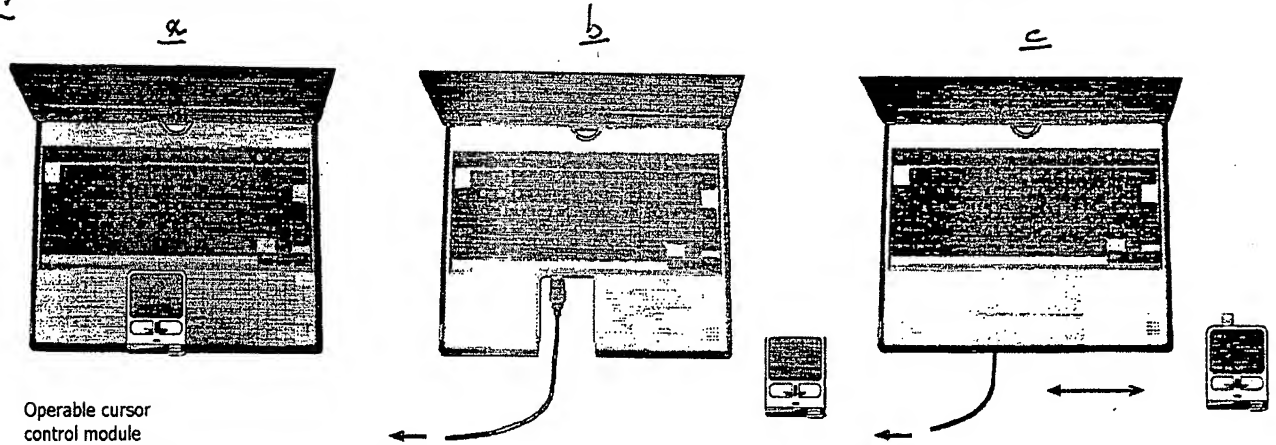
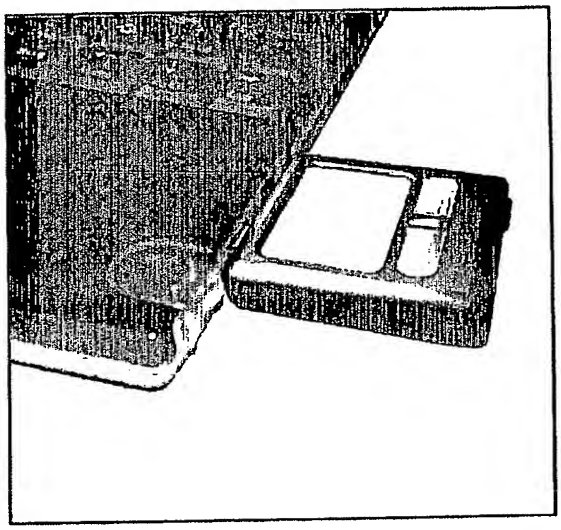


Fig. 29



Integrated decoupleable function module, can be used as portable data memory
(increased flexibility, portability and data security)

Figure 30



The decoupled function module, by being constructed with a flash data memory, can be used for transmitting data to other computers (depending on construction, with or without connecting cable, via the standard interface provided for the purpose, e.g. USB or firewire)

Personal or confidential data can be stored on the module and taken along even without notebook.

As a virtually system-internal memory, the memory can be extended or reduced arbitrarily via the decoupleable module.

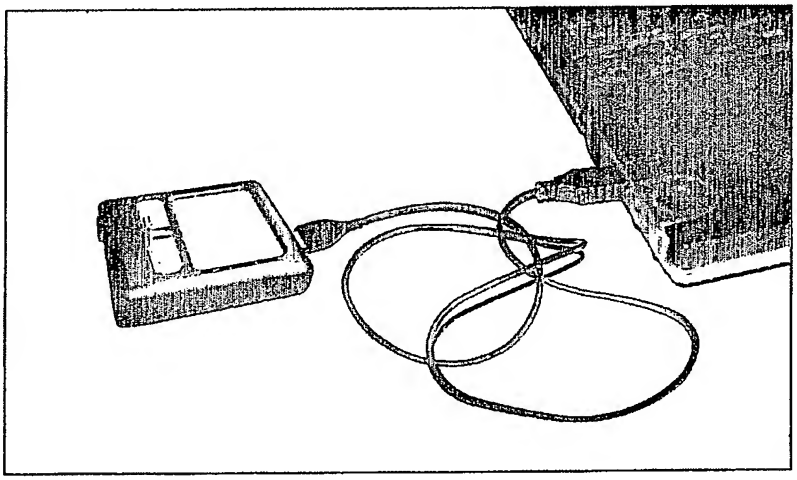
Due to large market fluctuations in the flash memory prices, a construction with card reader for flash memory cards is particularly advantageous.

Integrated cursor control module with external coupleable adapter cable

(increased flexibility and greater operational reliability and protection against failure)

The cursor control module removed from the coupling bay can be connected like a conventional mouse by means of cable (also to other computers). e.g. with empty battery or for situations in which wireless communication is disadvantageous or prohibited.

Figure 31



The plug-in connection of the adapter cable is constructed in such a manner that it can be connected like an extension cable at one end to the interface of the module and at the other end to the standard interface of the display device to an external computer.

If it is not used or for transport purposes, the cable can be stowed on the side in a hollow space next to the coupling bay.

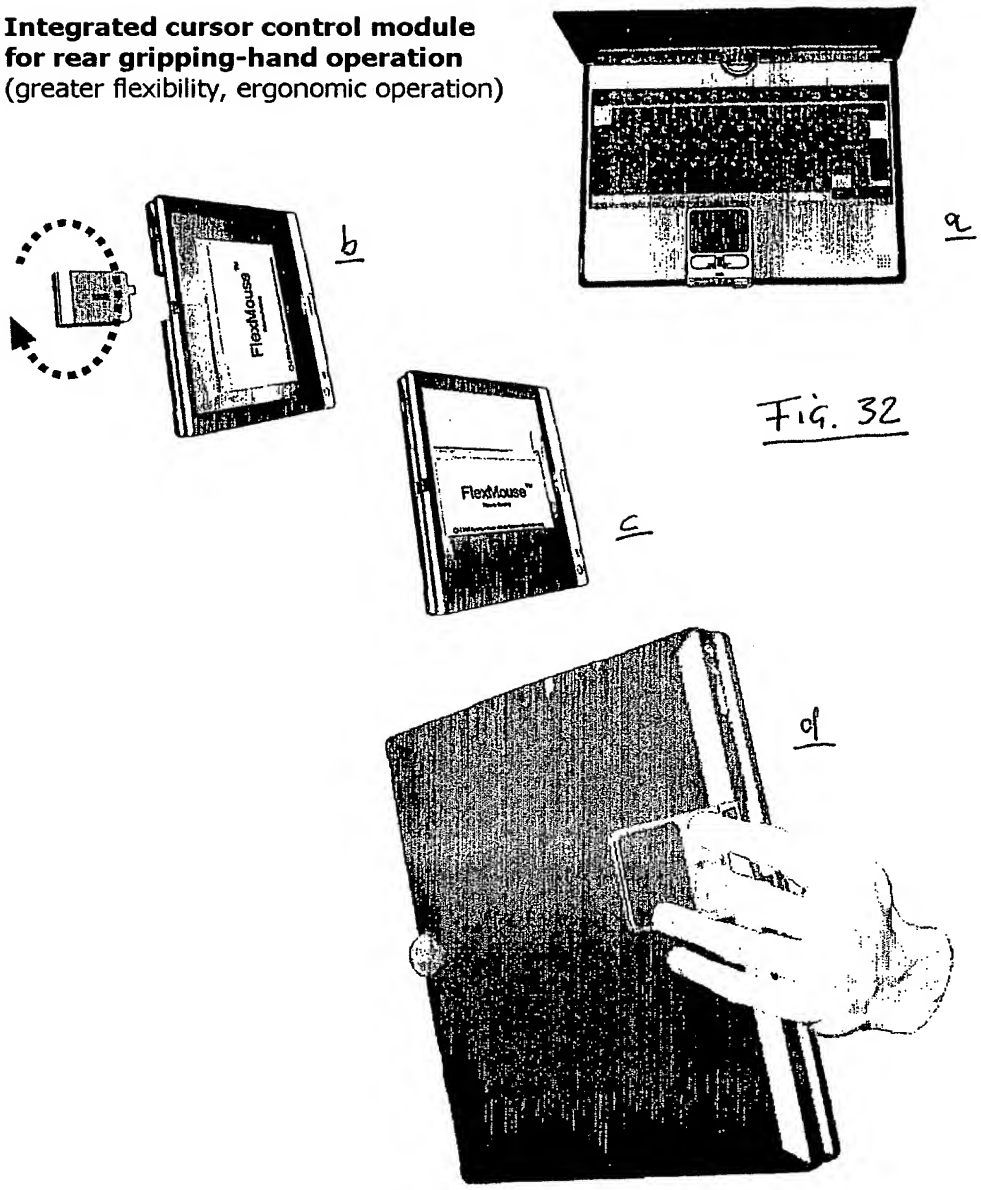


Fig. 32

Figure 32

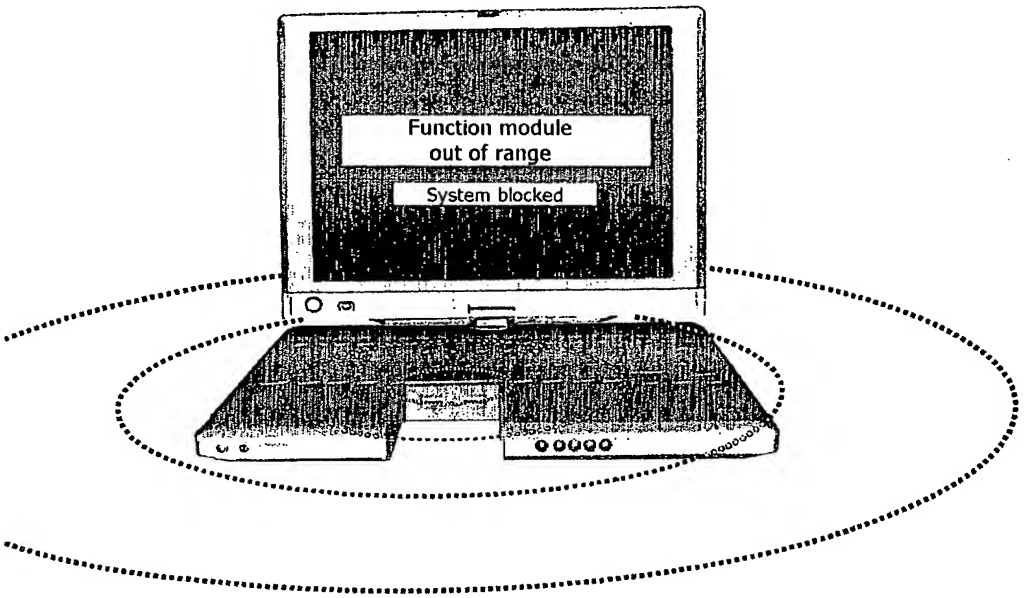
The possibility of use and embodiment is particularly advantageous for tablet PCs with rotatable screen, for ergonomically operating in the hand-held state of operation, and for avoiding disadvantageous additional miniature keys on the front of the display.

The key functions are set up for hand-gripping operation by turning the cursor control module. For example for paging or scrolling screen pages, for inserting selection menus and/or selecting information displayed

Integrated decoupleable function module which can be used as access and rights card

(increased flexibility and data security)

Fig. 33



Moving the function module outside a predetermined radio or infrared range of the display device (e.g. by taking along the mouse) causes the system to be blocked and the screen saver to be activated.

The blocking can be automatically cancelled again by moving the module into range, by identification and/or authentication.

Spying out the device by third parties is no longer possible without cursor control module and by additionally blocking all external connector interfaces. When the module is lost or has been forgotten, access is possible via, for example, PIN and/or TAN number.

Other modules, e.g. cursor control modules, can be registered and licensed by the administrator, which can be coupled with the setting-up of corresponding user profiles and access rights.